



# **I980 Rugged Tablet PC**

**(Intel® Atom Z530 Based Tablet PC)**

## **USERS MANUAL**

Version: 1.2

R08I98M-RTXXXX	8.4 inch Rugged Tablet PC
R10 I98M-RTXXXX	10.4 inch Rugged Tablet PC
R12 I98M-RTXXXX	12.1 inch Rugged Tablet PC



### IMPORTANT SAFETY INSTRUCTIONS

Please read these instructions carefully before using the product and save for later reference.

Follow all warnings and instructions marked on the product.

Unplug this product from the wall outlet before cleaning. Clean the product with a damp soft cloth. Do not use liquid or aerosol cleaners as it may cause permanently damage to the screen.

Do not use this product near the water.

Do not place this product on an unstable cart, stand, or table. The product may fall, causing severe damage to the product.

This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.

This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. (For AC version only) Do not defeat the purpose of the grounding-type plug.

Do not allow anything to rest on the power cord. Do not locate this product where a person can pass through the power cord.

Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.

Do not attempt to service this product by yourself, as opening or removing covers may expose you to dangerous voltage points or other risks and will void the warranty. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

When the power cord or plug is damaged or frayed.

If liquid has been spilled into the product.

If rainy or water has been exposed to the product.

If the product does not operate normally that the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since inappropriate adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

If the product has been dropped or the cabinet has been damaged.

If the product exhibited a distinct change in the performance, that indicates a need for service.



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Winmate warrants that each of its products will be free from material and workmanship defects for a period of one year from the invoice date. If the customer discovers a defect, Winmate will, at its option, repair or replace the defective product at no charge to the customer, provided it is returned during the warranty period of one year, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service.

If the serial number and the product shipping data differ by over 30 days, the in-warranty service will be made according to the shipping date. In the serial numbers the third and fourth two digits give the year of manufacture, and the fifth digit means the month (e. g., with A for October, B for November and C for December).

For example, the serial number 1W08Axxxxxxx means October of year 2008.



### **Customer Service**

We provide service guide for any problem as follow steps : First, visit the website at <http://www.winmate.com.tw> to find the update information about the product. Second, contact with your distributor, sales representative, or our customer service center for technical support if you need additional assistance. You may have the following information ready before you call :

- Product serial number
- Peripheral attachments
- Software (OS, version, application software, etc.)
- Description of complete problem
- The exact wording of any error messages

In addition, free technical support is available from our engineers every business day. We are always ready to give advice on application requirements or specific information on the installation and operation of any of our products. Please do not hesitate to call or e-mail us.

### **Notice**

1. Do not touch the LCD panel surface with sharp or hard objects.
2. Do not use abrasive cleaners, waxes or solvents for cleaning, use only a dry or damp, soft cloth.
3. Use only with a high quality, safety-approved, AC/DC power adapter.





### **Safety Precautions**

- **Warning!**



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

- **Caution!**



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.



## Packaging List

This product is shipped with the items list below. Please make sure that all are in your package.

Default Packing Accessories		
Item	Description	Note
1	1 piece of 6 Cell Li-Ion Battery Pack	
2	1 piece of Users Manual.	
3	1 piece of CD for System Driver Utility.	
4	1 piece of 19V Adapter w/ Standard Power Cord. <b>(Euro / U.S. Std type, 1.8m)</b>	
5	1 piece of Stylus	
6	1 piece of Slim Handheld Bag	
Optional Accessories		
Item	Description	Note
1	1 piece of CD for Recovery CD for Operation System (Windows XP embedded).	Optional with Windows XP embedded pre-installed.
2	1 piece of XPe Recovery Users Guide.	Optional with Windows XP embedded pre-installed.
3	1 piece of Handstrip with 4 pieces M3x5 screws	
4	1 piece of Handle Belt can lock on the side of the Tablet PC to carry on. Recommended when use any PCMCIA device on top.	Available for 10.4" / 12.1" only.
5	1 piece of Carry Bag, the Carry Bag is convenient and easy for user to carry with the Tablet PC.	
6	1 piece of Carry Belt, can use with Carry Bag or use stand-alone to click with the four corners of Tablet PC to carry on.	Available for 10.4" / 12.1" only. 8.4" need bundle with Carry Bag.
7	1 pieces of Desktop Docking Stand with a battery charger station	With different function between 8.4" to 12.1".
8	1 pieces of Car power charger adapter	
9	Other battery if necessary in order	



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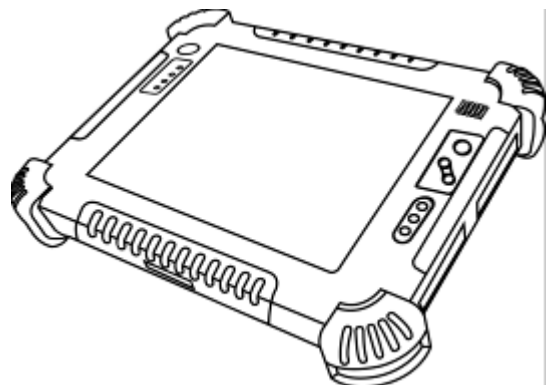
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# CHAPTER 1

## Getting Started





## CHAPTER 1 GETTING STARTED

This chapter guides you to get the Rugged Tablet PC ready for operating.

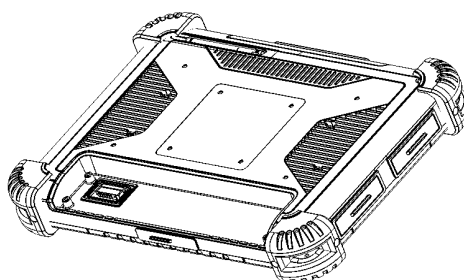
### 1.1 Connecting the AC Power

Our tablet PC can operate either on the external AC power adapter or internal battery power. It is suggested that you use AC power when you start up the tablet PC first time.

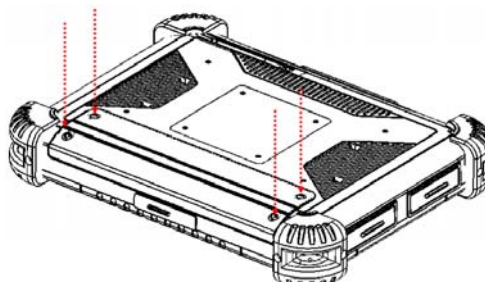
#### **\*\*Caution**

**Use only the AC adapter included with your tablet PC. Using other AC adapters may damage the tablet PC.**

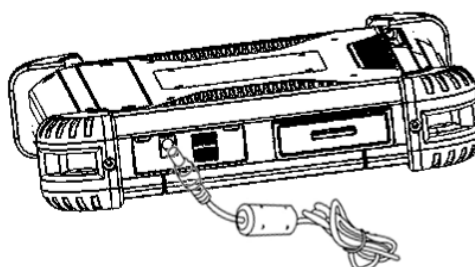
1. Make sure that the tablet PC is turned off.
2. Place the tablet PC upside down.



3. Put Battery Pack into the battery slot and screw tightly with the four screws.



4. Plug the DC power cord of the AC adapter to the power connector of the tablet PC.
5. Plug the female end of the AC power cord to the AC adapter and the male end to the power electrical outlet.





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6. Turn on the Tablet PC few seconds later after power is being supplied from the electrical outlet to the AC adapter.
7. When the AC adapter is connected, the Battery Pack is also under charging. You can check the Battery Status LED indicator to see the currently progress. The indicator turns to green when is fully charged.

(For information on using battery power, see “Chapter 3 The Power Management”)

### **\*\*Caution**

**When you disconnect the AC adapter, disconnect from the electrical outlet first and then from the tablet PC. A reverse procedure may damage the AC adapter or the tablet PC.**

When unplugging the connector, always hold the plug head. Never pull on the cord.

## 1.2 Turning On and Off the Tablet PC

### 1.2.1 Turning on the Tablet PC

1. Place your tablet PC on a flat and stable surface or holding the tablet PC on your hand.



2. Make sure that the tablet PC is either connected to AC power or the battery pack with power.

### **3. Press the power button by 4 seconds to start it.**

### 1.2.2 Shut down the Tablet PC

To shut down the tablet PC power, use the “Shut Down” command of your operating system.

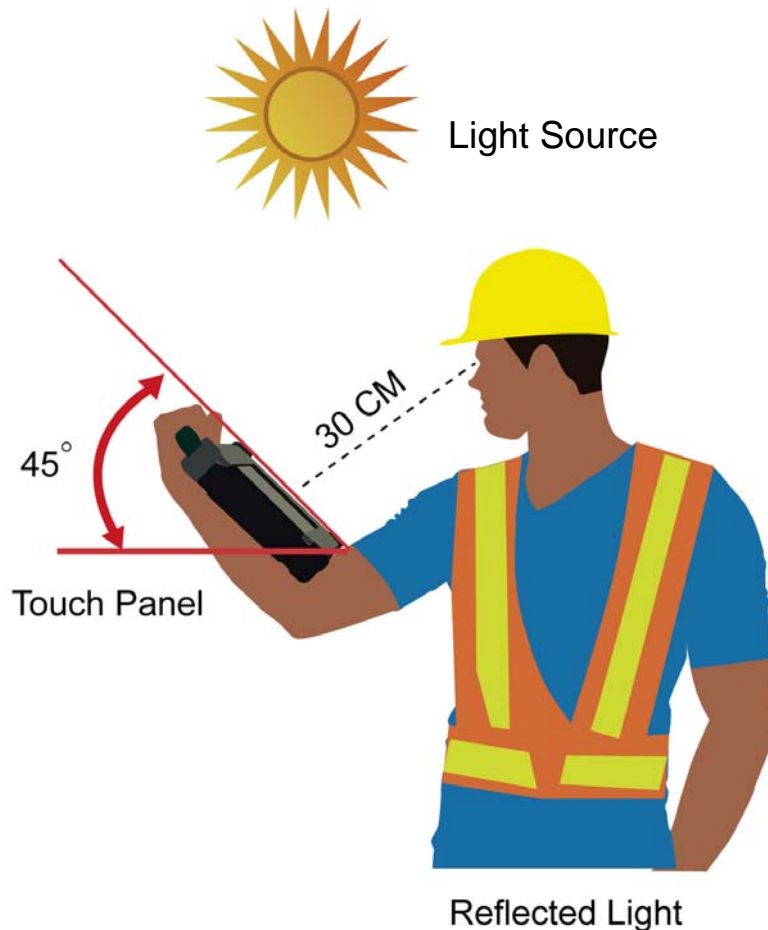
### **\*\*Caution**

**If you have to turn the tablet PC on again immediately after turning it off, wait for five seconds to for turn it on. Turning the tablet PC off and on rapidly would lead the unexpected damage it.**



### 1.3 The Optimized Use for Sunlight Readable Touchscreen.

With the imposed reflective function, the modified LCD can reflect the ambient light passing the LCD cell and utilize the reflected light beams as its illumination. The stronger the ambient light is, the brighter the LCD will appear. As a result, the modified LCD is viewable under lighting conditions. The optimized angle of view is forty-five degree. And the optimized distance of view is 30 cm.



#### **\*\*Caution**

Although transfective LCD is mainly used in outdoor environment and can increase the reflective lights under sunlight, it is suggested that you should keep the LCD in appropriate temperature for operation and storage, and avoid direct sunlight if possible. To ensure the transfective LCD work stably, 0~50°C (32-121°F) operation and storage temperature is suitable.









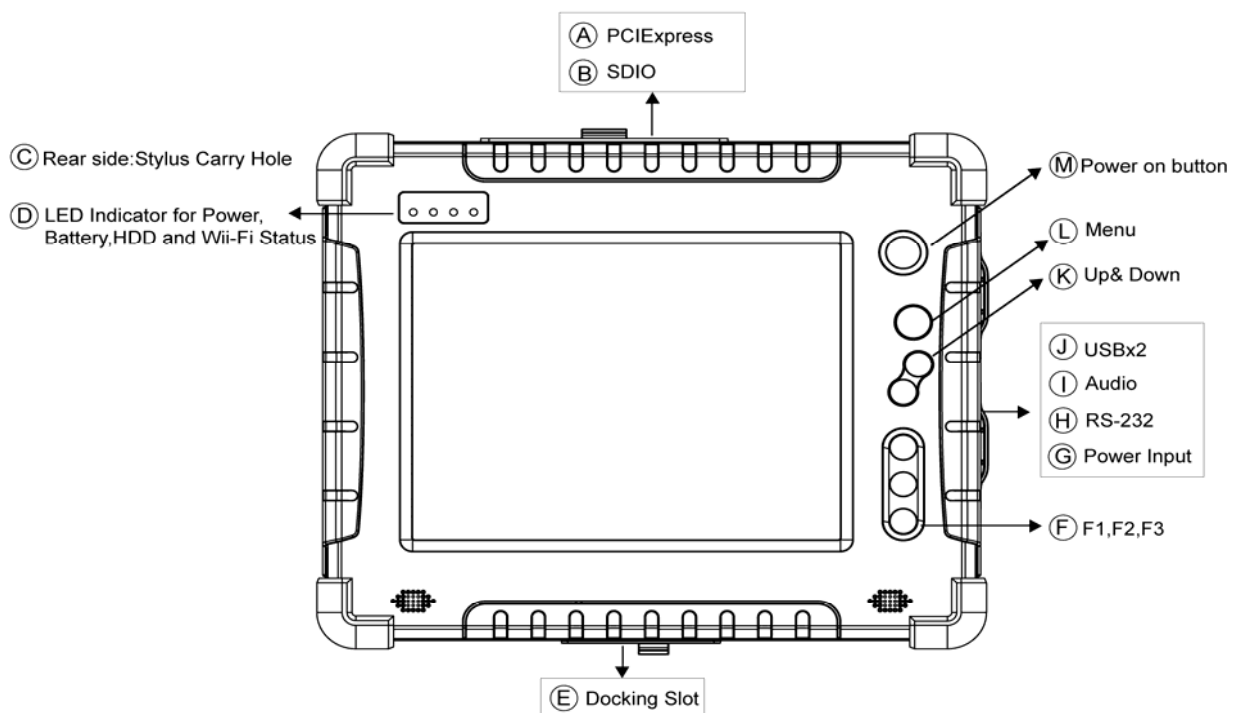
## 1.4 8.4 inch I/O Functions (MOQ required)

This section we will show the Tablet PC external connection parts and their functions.

### LED Indicator Status Description

LED Term	LED Indicator	Indicator Status Description
Power mode		<b>Green light</b> : when Power is On. No light means when Power is Off.
		<b>Orange Light</b> : Under charging <b>Red Blinking Light</b> : Low Battery (Check <b>Chapter 2.2.3</b> for low battery and replacing Hot swap battery)
Storage Status		<b>Green light</b> : when storage is under operation.
Wi-Fi Status		<b>Green light</b> : when Wi-Fi is under operation. No light means when Wi-Fi stops operating.

### IO Functions Description





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#	Components	Function Description	See Other Intro.
A.	PCIExpress	One PCIExpress slot for user to connect any PCIExpress 34 standard interface device.	
B.	SDIO	One SD Card slot for user to connect any SD Card device.	
C.	Stylus Slot	Easy to take out and plug in the stylus pen.	
D.	LED Indicator	From left to right shows the status about <a href="#">Power mode</a> , <a href="#">Battery mode</a> , <a href="#">Storage and Wi-Fi</a> status mode.	
E.	Docking Slot	The Docking slot can connect to docking device as docking cradle, the maximum function of the docking connector can support 1x power input, 1x RJ-45 LAN, 1x VGA and 4 USB2.0 ports.	
F.	F1, F2, F3	6 programmable Hot-keys for user to define by application, default first short push key (F1 short) will turn-on Hot TAB AP Utility.	Chapter 2.2.2
G.	Power Jack	Connect 19V Adapter to the Power jack.	
H.	RS232 Port	Connect RS232 cable D-SUB 9pin to the RS232 port.	
I.	Audio Port	Audio output, Microphone input	
J.	USB Port	Two USB2.0 compliance ports for user to connect any USB device.	
K.	Up & Down	Push Up key to increase Brightness or Volume under Menu function. Push Down key to decrease Brightness or Volume under Menu function.	Chapter 2.2.1
L.	Menu	Push Menu function to show Brightness, Volume, Battery status and WiFi/ Bluetooth on/off.	Chapter 2.2.1
M.	Power On Button	<a href="#">Push 4 seconds continuous</a> to turn-on the PC. Need <b>8 seconds</b> continuous push to force the Tablet PC turn-off immediately.	





The Tablet PC has one stylus pen in accessory. Our default stylus is only recommended for use in our Tablet PC.



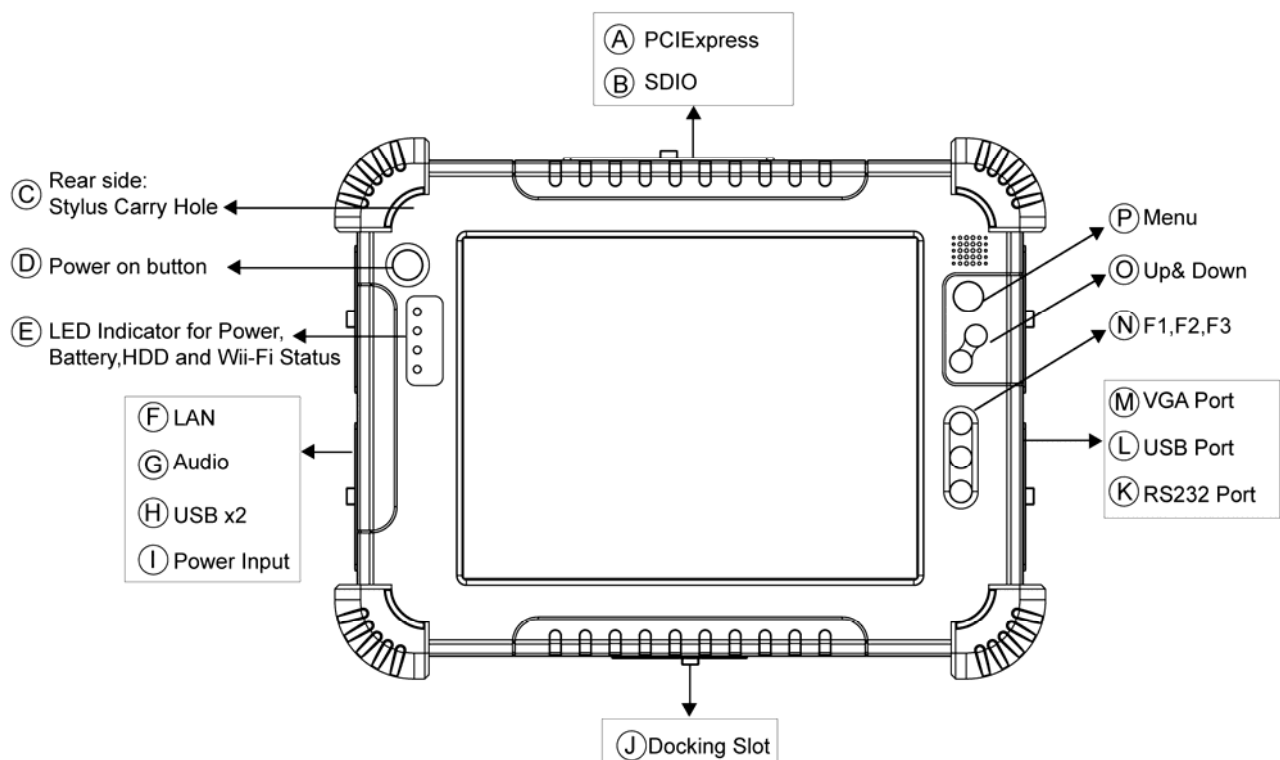
## 1.5 10.4 inch I/O Functions

This section we will show the Tablet PC external connection parts and their functions.

### LED Indicator Status Description

LED Term	Power mode	Battery Status	Storage Status	Wi-Fi Status
<b>LED Indicator</b>				
<b>Indicator Status Description</b>	<b>Green light :</b> When the Power is On. No light means when Power is Off.	<b>Orange Light :</b> Under charging <b>Red Blinking Light :</b> Low Battery (Check <b>Chapter 2.2.3</b> for low battery and replacing Hot swap battery)	<b>Green light :</b> when storage is under operation. No light means when storage stops operating.	<b>Green light :</b> when Wi-Fi is under operation. No light means when Wi-Fi stops operating.

### IO Functions Description





## Rugged Computing

#	Components	Function Description	See Other Intro.
A.	PCIExpress	One PCIExpress slot for user to connect any PCIExpress 34 standard interface device.	
B.	SDIO	One SD Card slot for user to connect SD Card device.	
C.	Stylus Slot	Easy to take out and plug in the stylus pen.	
D.	Power On Button	<b>Push 4 seconds continuous</b> to turn-on the PC. Need <b>8 seconds</b> continuous push to force the Tablet PC turn-off immediately.	
E.	LED Indicator	From left to right shows the status about <b>Power mode, Battery mode, Storage and Wi-Fi</b> status mode.	
F.	LAN Port	The product can support 10/100/1000 Mbit Giga LAN ethernet, connect RJ-45 LAN cable to LAN port.	
G.	Audio Port	Audio output, Microphone input	
H.	USB	Two USB2.0 compliance ports for user to connect any USB device.	
I.	Power Jack	Connect 19V Adapter to the Power jack.	
J.	Docking Slot	The Docking slot can connect to docking device as docking cradle, the maximum function of the docking connector can support 1x power input, 4 USB2.0 ports.	
K.	RS232 Port	Connect RS232 cable D-SUB 9pin to the RS232 port.	
L.	USB Port	One USB2.0 compliance ports for user to connect any USB device.	
M.	VGA Port	Connect VGA cable to the VGA output port, and the other side connect to monitor VGA input.	
N.	F1, F2, F3	6 programmable Hot-keys for user to define by application, default first short push key (F1 short) will turn-on Hot TAB AP Utility.	Chapter 2.2.2
O.	Up & Down	Push Up key to increase Brightness or Volume under Menu function. Push Down key to decrease Brightness or Volume under Menu function.	Chapter 2.2.1
P.	Menu	Push Menu function to show Brightness, Volume, Battery status and Wi-Fi/ Bluetooth on/off.	Chapter 2.2.1

The Tablet PC has one stylus pen in accessory. Our default stylus is only recommended for use in our Tablet PC.



## Rugged Computing

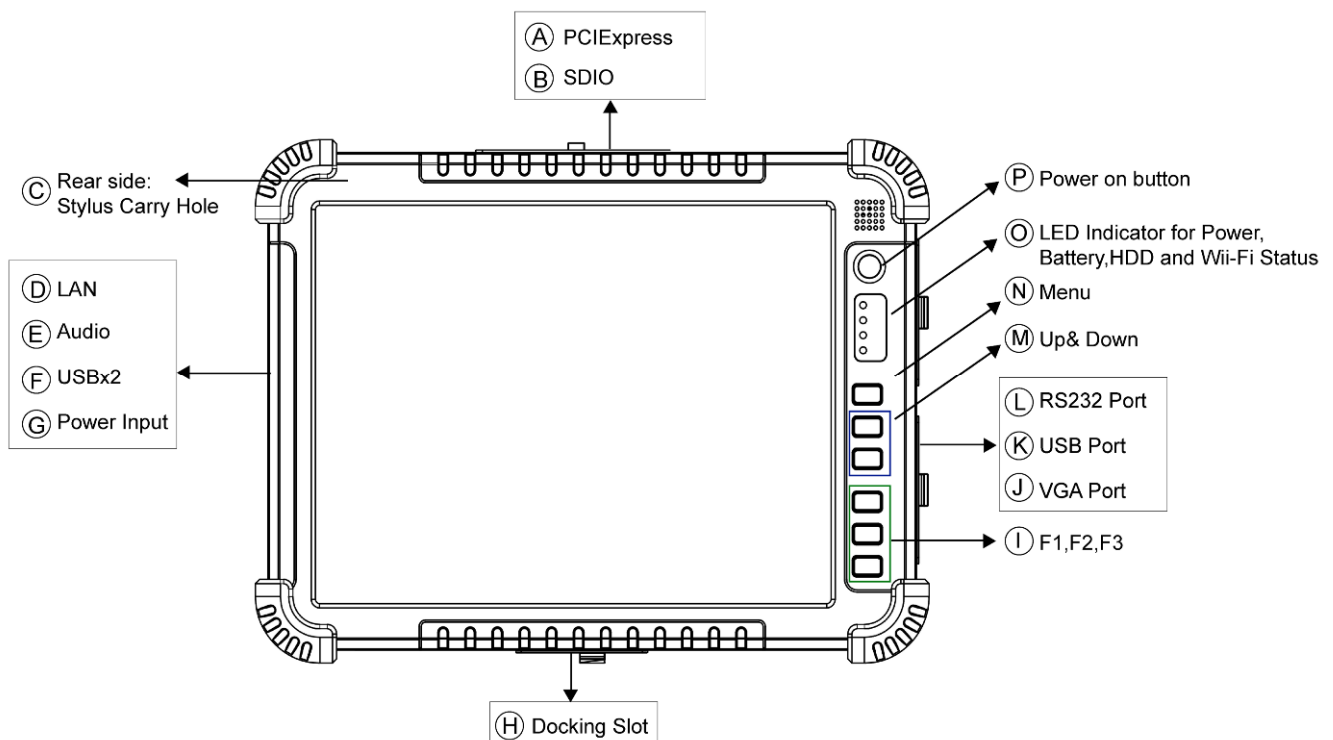
### 1.6 12.1 inch I/O Functions

This section we will show the Tablet PC external connection parts and their functions.

#### LED Indicator Status Description

LED Term	Power mode	Battery Status	Storage Status	Wi-Fi Status
<b>LED Indicator</b>				
<b>Indicator Status Description</b>	<b>Green light :</b> When the Power is On. No light means when Power is Off.	<b>Orange Light :</b> Under charging  <b>Red Blinking Light :</b> Low Battery (Check <b>Chapter 2.2.3</b> for low battery and replacing Hot swap battery)	<b>Green light :</b> when storage is under operation. No light means when storage stops operating.	<b>Green light :</b> when Wi-Fi is under operation. No light means when Wi-Fi stops operating.

#### IO Functions Description





## Rugged Computing

#	Components	Function Description	See Other Intro.
A.	PCIExpress	One PCIExpress slot for user to connect any PCIExpress 34 standard interface device.	
B.	SDIO	One SD Card slot for user to connect SD Card device.	
C.	Stylus Slot	Easy to take out and plug in the stylus pen.	
D.	LAN Port	The product can support 10/100/1000 Mbit Giga LAN ethernet, connect RJ-45 LAN cable to LAN port.	
E.	Audio Port	Audio output, Microphone input	
F.	USB	Two USB2.0 compliance ports for user to connect any USB device.	
G.	Power Jack	Connect 19V Adapter to the Power jack.	
H.	Docking Slot	The Docking slot can connect to docking device as docking cradle, the maximum function of the docking connector can support 1x power input, 4 USB2.0 ports.	
I.	F1, F2, F3	6 programmable Hot-keys for user to define by application, default first short push key (F1 short) will turn-on Hot TAB AP Utility.	Chapter 2.2.2
J.	VGA Port	Connect VGA cable to the VGA output port, and the other side connect to monitor VGA input.	
K.	USB Port	One USB2.0 compliance ports for user to connect any USB device.	
L.	RS232 Port	Connect RS232 cable D-SUB 9pin to the RS232 port.	
M.	Up & Down	Push Up key to increase Brightness or Volume under Menu function. Push Down key to decrease Brightness or Volume under Menu function.	Chapter 2.2.1
N.	Menu	Push Menu function to show Brightness, Volume, Battery status and WiFi/ Bluetooth on/off.	Chapter 2.2.1
O.	LED Indicator	From left to right shows the status about <a href="#">Power mode</a> , <a href="#">Battery mode</a> , <a href="#">Storage</a> and <a href="#">Wi-Fi</a> status mode.	
P.	Power On Button	<a href="#">Push 4 seconds continuous</a> to turn-on the PC. Need <b>8 seconds</b> continuous push to force the Tablet PC turn-off immediately.	



### 1.7 Key Part Accessories (Optional)

#### 1.7.1 Multi-functional Desktop Docking Station

Our Tablet PC can support one **Multi-functional Desktop Docking Station** for optional accessory. The Desktop Docking Station have one charger for other battery packs and expansion slots.



#### 1.7.2 Multi-functional Vehicle mount Docking

Tablet PC can support one **Multi-functional Vehicle Mount Docking**. Vehicle mount Docking can charger from car power charger and expansion slots.



Through the first Chapter 1.1 to 1.4, you can understand the basic information when you own the machine, in next Chapter you will understand more detail about how to operate the tablet PC. Between this, you can check our product functions and specification.



### 1.6 Product Specification

#### System Specification

System	
Processor	Intel® Atom Z530 1.6GHz
BIOS	AMI System BIOS
System Chipset	Intel® US15W Chipset
System Memory	1 x SODIMM, Max. 2GB DDR2 533
LAN Controller	Realtek RTL8111B Giga LAN Controller
Storage	2.5" IDE 80GB HDD(Default), Industrial Compact Flash Card, 2.5" Automobile HDD or 2.5" Solid State Disk(SSD)
Audio	Audio out for headset, Micro-in for microphone jack, 1.5W Speaker (Internal)
Expansion Slot	PCI Express Card, SDIO(SD Card) Slot
I/O Connectors	
Left I/O Port	8.4" : N/A
	10.4" / 12.1" : 1x RJ-45 LAN ,2x USB 2.0, 1x Audio out, Micro-in Jack, 1x Power Input Jack
Right I/O Port	8.4" : 2 x USB 2.0, 1 x Audio out, Micro-in Jack, 1 x Power Input Jack, 1 x COM
	10.4" / 12.1" : 1x COM, 1x VGA,1xUSB2.0
Upper I/O Port	1x PCI Express, 1x SDIO
Downside Docking Expansion Connect	8.4" : 1 x LAN, 1 x VGA, 4 x USB and Docking Stand Power input
	10.4" / 12.1" : 4x USB, and Docking Stand Power input
In Front Control	
Control Button	1x Power button, Menu Key, Up Key, Down Key Down Key to change Brightness, Volume and Battery Status Volume 3x Programmable Hotkey / Function Keys
LED indicator	Power On/Off, Battery, HDD Access, Wi-Fi On/Off
Display Specification	
Size	8.4" inch / 10.4 inch / 12.1 inch
Resolution	800x600 / 1024x768 pixels
Touch	4 Wire Resistive (With Sunlight Readable Touch for the best optical performance)





## Rugged Computing

### System Specification (continues)

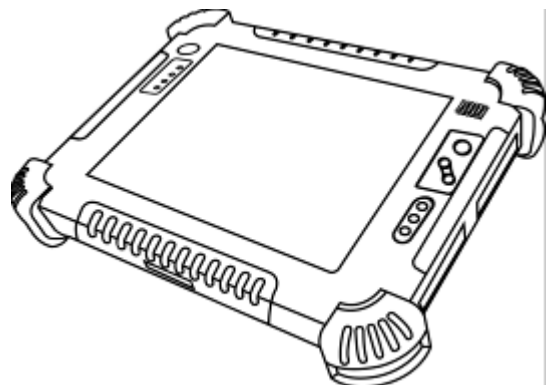
Mechanical and Environment	
Weight	2.2 Kg / 2.5Kg/ 3Kg (w/o accessories)
Operating Temperature	-20°C to 60°C
Operating Humidity	10% to 90% (non condensing)
IP Proof	IP54
Mounting	VESA mount, Vehicle mount
Shock*	MIL-STD-810F M514.5
Vibration*	MIL-STD-810F M514.5
Drop*	4 ft, Free to concrete
Certifications	CE, FCC Class B, UL MIL810F for Vibration /Shock / Drop / Temperature
Power Management	
Power Input	19V DC
Battery	Li-Ion battery 4800mAh, 11.1V
Charging time	2.5 Hours
Adapter	100-240V, 50-60Hz, 19VDC
Wireless Communication	
WLAN	802.11b/g (internal by usb module) (for Optional)
Bluetooth	Bluetooth (internal by usb module) (for Optional)
WWAN	GSM/GPRS, CDMA, UMTS, EDGE (external by Express Card or USB)
GPS	GPS Solution (external by USB)

\* When use SSD or Industrial Compact Flash



## CHAPTER 2

# Operating Tablet PC and HotTab Hotkey Utility






### CHAPTER 2 OPERATING TABLET PC AND HOTTAB HOTKEY UTILITY

This Chapter will guide you how to operate the Tablet PC, including start / stop the PC, and how to use menu function including basic hardware function adjustment and the HotTab hotkey utility software that is very easy and helpful for operating the computer.

#### 2.1 Starting and Stopping the Tablet PC

##### Starting the Tablet PC

You always start the tablet PC using the power button (  ), **push the Power Button continuously by 4 second to turn on the Tablet PC.**

Our Tablet PC will start up with an operating system (OS) existing on the storage device like the hard disk or compact flash card. The computer will automatically load the OS after you turn it on. This is normal booting process.

**NOTE:** The operating system is the platform for all software application programs to run on. The Tablet computer is recommended to use the Microsoft Windows XP embedded operating system for default solution.

##### Shut Down the Tablet PC

When you finish your work, you can shut down the tablet PC by turning off the power or leaving the tablet PC in Standby mode:

#	Stop mode	How to do	Start or Resume again
1	Power Off	Following the shutdown process during operating system. The standard process can prevent unsaved data loss or damage your software programs.	
2	Sleep (S3)	Under normal operating system, <b>Push the Power Button Continuously 4 seconds</b> to show the inquiry action window and choose Sleep option to standby the use.	

If you choose to stop in Standby mode, you can return to where you left off the next time you start up the tablet PC.

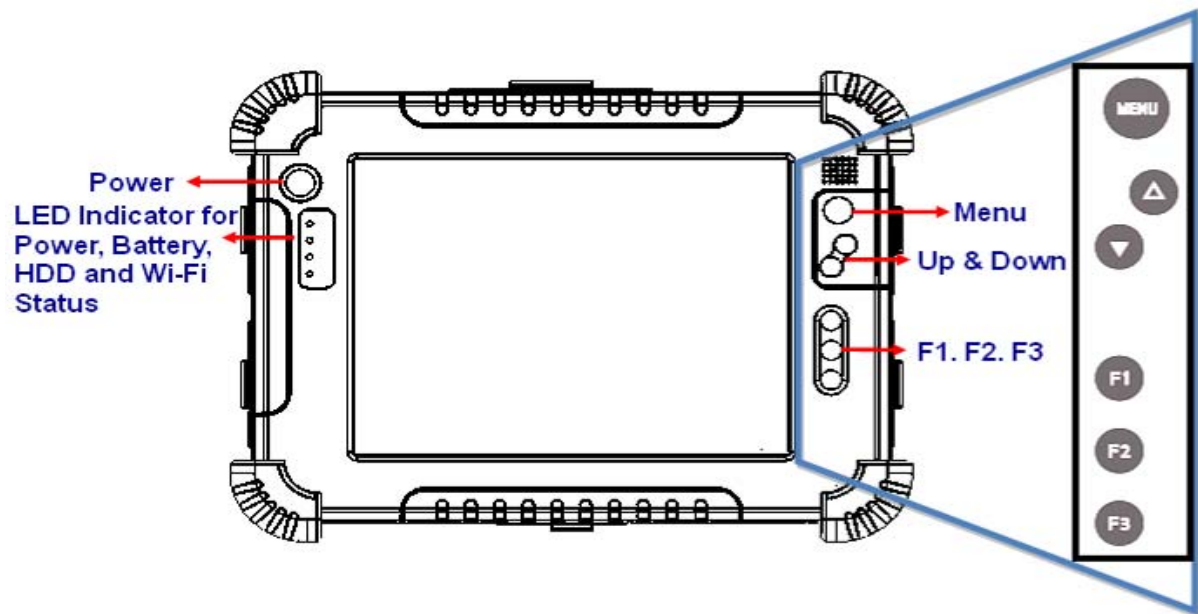


## Rugged Computing








### 2.2 Quick to Know Menu and HotTab Hotkey Function

This section will introduce you about our easy-of-use front panel functionality. Our Tablet PC front panel buttons support very easy way and useful function to adjust Brightness, Volume and watch Battery's current status. For six programmable Hotkeys function can also be defined by user to control by their common use application.

#### 2.2.1 How to use Menu Function



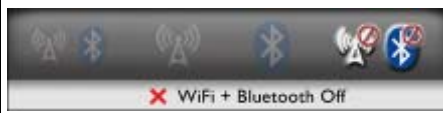






#### Menu Function Adjustment

#	Action	Function Description	Funtion Adjustment	
1	Push "Menu" button 1 <sup>st</sup> Time	 Show Current Brightness	 Click "Up" button to increase brightness (Or Drag by Touch)	 Click "Down" to decrease brightness(Or Drag by Touch)
2	Push "Menu" button 2 <sup>nd</sup> Time	 Show current Volume	 Click "Up" button to increase volume(Or Drag by Touch)	 Click "Down" to decrease volume(Or Drag by Touch)
3	Push "Menu" button 3 <sup>rd</sup> Time	 Show current Battery status		





## Rugged Computing

### Menu Function Adjustment

#	Action	Function Description		Funtion Adjustment
4	Push “Menu” button 4 <sup>th</sup> Time	<div></div> <div></div> <div></div> <div></div>		<p>Show current on/off of Wireless\ Bluetooth mode. This is a mix solution bar with four choices.</p> <ol style="list-style-type: none"><li>1. WiFi+ Bluetooth On</li><li>2. WiFi On / Bluetooth Off</li><li>3. Bluetooth On / WiFi Off</li><li>4. WiFi+ Bluetooth Off</li></ol> <p>Click “<b>Up</b>” button to <b>go Right</b> and Click “<b>Down</b>” button to <b>go Left</b>.</p>
5	Push “Menu” button continuously 4 seconds	<div></div> <p>Lock/Unlock all button function</p>	<div></div> <p>Push 4 seconds to Lock all button** (not including Touch)</p>	<div></div> <p>Push 4 seconds to Unlock back to normal operation</p>

#### \*\*NOTICE

If you shutdown the Tablet PC during operating system(By Touch) under **Lock** condition, you **CAN NOT** turn on the Tablet PC by Power Button; you should push “Menu” button 4 seconds to **Unlock** the system and back to normal operation then you can turn on by power button.

Action	Push Power button Under Lock status	Push “Menu” button 4 seconds to Under Unluck status
LED Indicator		
Indicator Status Description	<b>Quick Blinking Red Light :</b> Button on Lock Status, you can not control the Power button.	Normal power on indication.
Action	<b>Push “Menu” button 4 seconds to Unlock back</b>	N/A

We strongly recommend you to check Lock/ Unlock condition before turn off PC.



## Rugged Computing

### 2.2.2 How to use HotTab Hotkey Function

From the operation system installation, we will provide you Hot-tab Hotkey software utility. After installation, you can see the icon on desktop of computer.

Click the icon and you can see the software application at center of desktop.



The HotTab Hotkey software program is the six key programmable application software; we choose some usual applied functions for default setup. For example, User can choose his own application program very easily by setting up the function from the setup window.



## Rugged Computing

### Hot-Tab Hotkey Function

Use the HotTab software utility to make it easy to program and define hot keys by customer's usual application.

#	Action	Function Description	Function Adjustment	See Other Intro.
1	Press "F1"	Default : Hot TAB functions	Use "Browse" and choose the execution program file	
2	Hold "F1"	Default : Outlook Express		Long Push: 4sec.
3	Press "F2"	Default : Internet Explorer		
4	Hold "F2"	Default : Media Player		Long Push: 4sec.
5	Press "F3"	Default : My Document		
6	Hold "F3" **	Default : Calculator(Standard)	Use "Browse" and choose the execution program file	Long Push: 4sec.
		Default : Change Battery (Hot Swap)	<b>Push F3L to change battery power from Hotswap battery to main battery</b>	

\*\*See Page 32-33 for Hot Swap Function.

1. F1 Hot TAB functions will show four functions
  - A. The first is virtual mouse







## Rugged Computing

### B. Screen rotation



### C. Onscreen Keyboard







## Rugged Computing

- D. Handwriting(for Option): The Handwriting software utility is optional by third party software.



### 2. F2 to F3 function key

You can use “Browse” and choose the execution program file.





## Rugged Computing

3. Power Manage function:  
Select optimized performance section by application to save power.



4. System Information  
When you press menu 5<sup>th</sup> time, you can see the system information of Utility version, BIOS version and EC version.

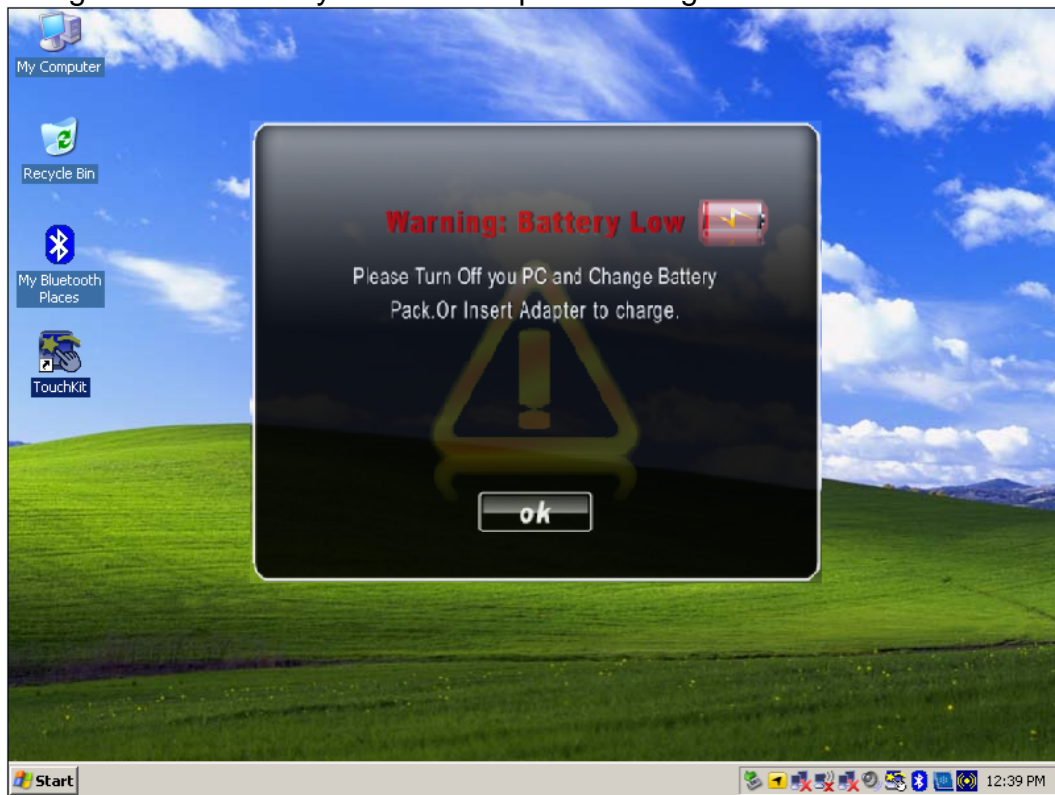






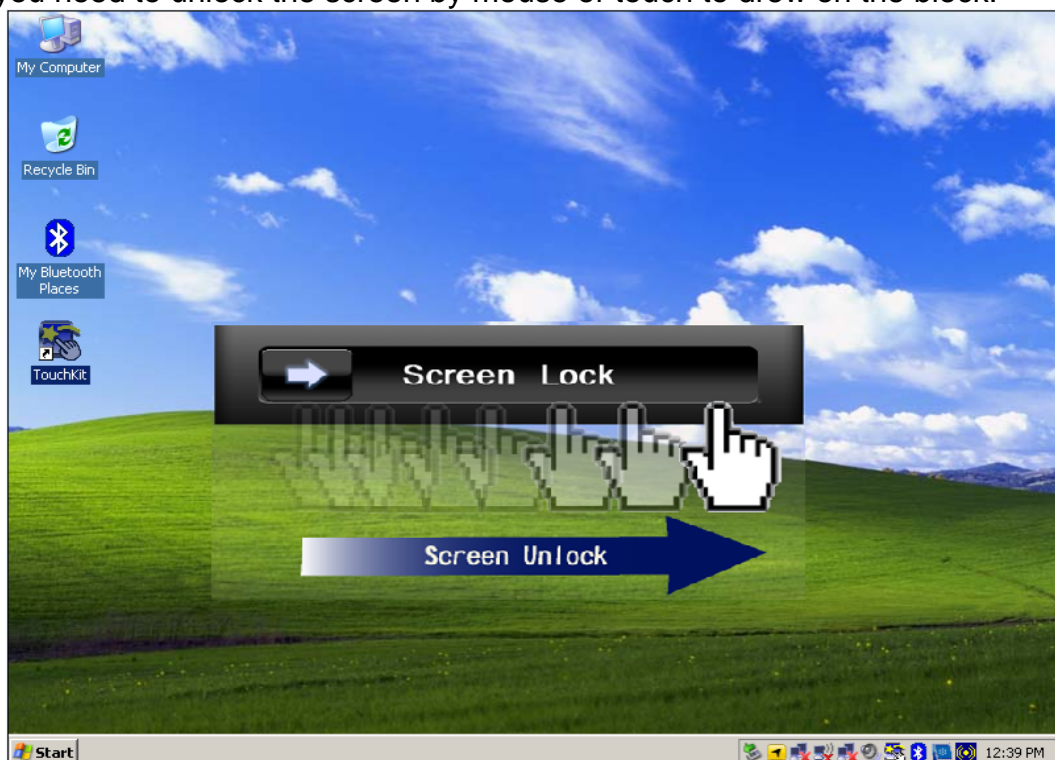
5. Low battery warning:

When the battery under 10%, system will show the battery low to remind you to change the new battery or insert adapter to charge.



6. Touch Lock Function:

You can use HotTAB to Lock the screen for preventing to touch the screen. And you need to unlock the screen by mouse or touch to draw on the block.



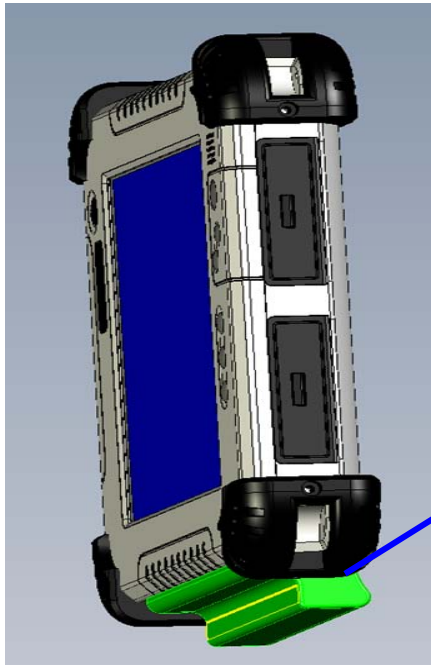


## Rugged Computing

### 2.2.3 Hot-Swap Second Battery Operation (Optional)

#### A. Second Battery Specification

The second Li-Ion 2600mAh back-up battery support half operating time of main battery.



Second Battery Specification:  
-Li-Ion 2600mAh Battery Cell, 11.1V

#### B. Installed Hot-Swap Battery

**Step 1** Plug the second battery while the Main battery in low power status.





## Rugged Computing

**Step 2** Use the two Thumb screws to tighten the second battery.



**Step 3** Push Menu button that will show the Main/ Second Battery Status.



### **\*\*NOTE**

When the Hot-Swap battery low, [PUSH F3L](#) to change battery back to Main battery power, and swap other Hot-swap battery.

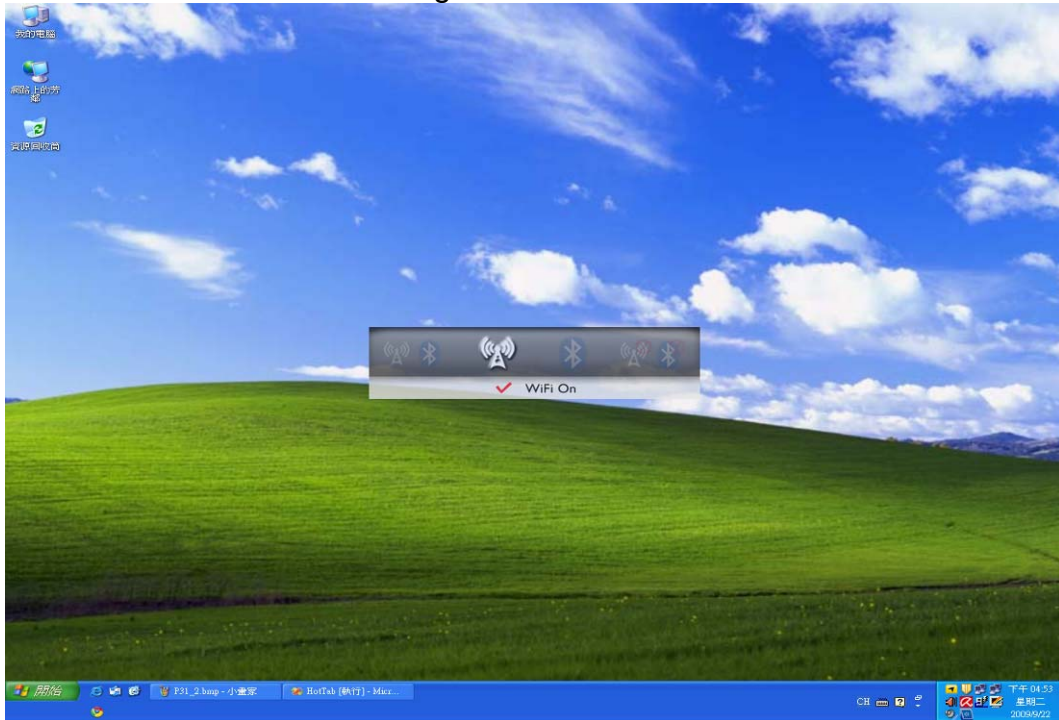




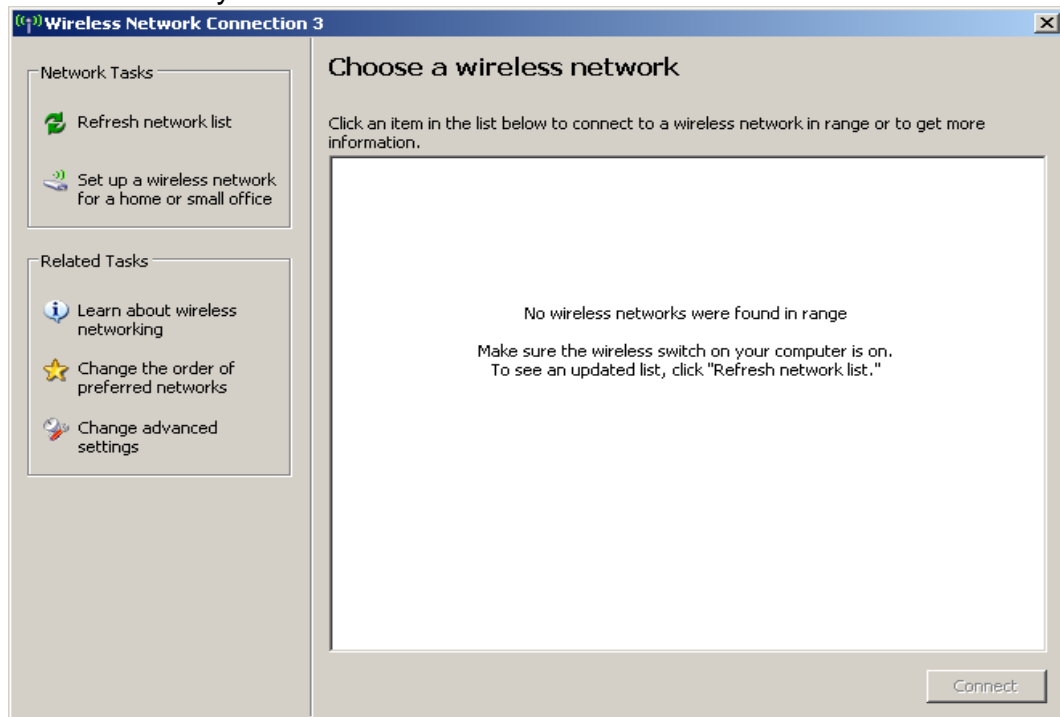
### 2.2.4 Connecting to a Wireless Network (Optional)

Connecting to a wireless network:

1. Push Menu function and making sure the Wireless status is "On".



2. By using the default build-in module, the The Ralink wireless connection utility will be disabled. Windows **Wireless Network Connection** is recommended in our Tablet PC systems.

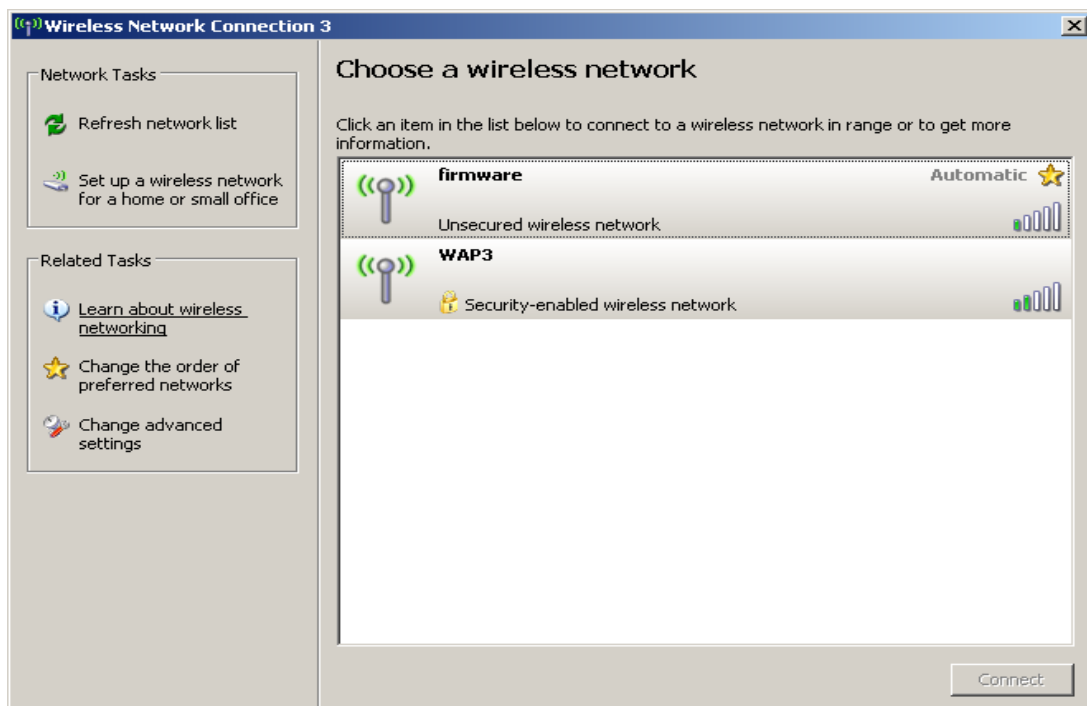




3. Right-click the **Wireless Network Connection** in Windows system tray and choose “**Launch Config Utility**”.

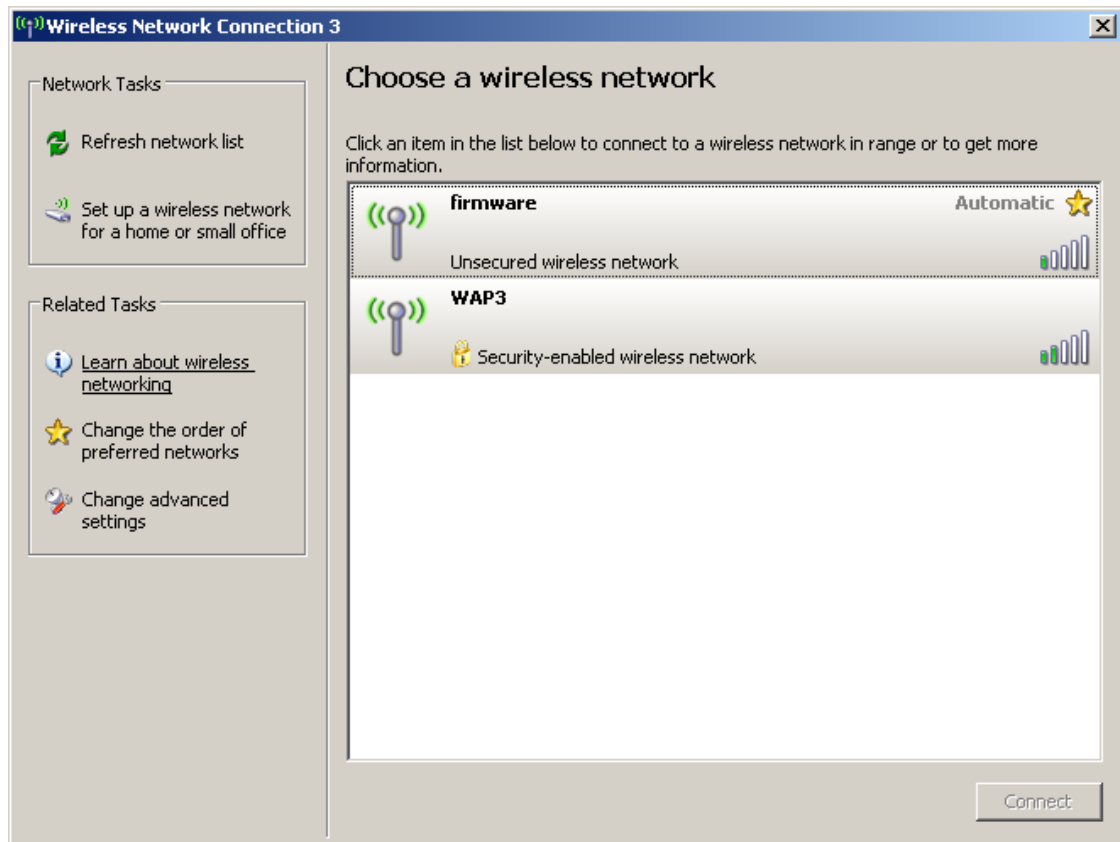


4. The **Wireless Network Connection** program will detect all wireless links automatically and show each status, choose one you want to link and click “**Connect**”.



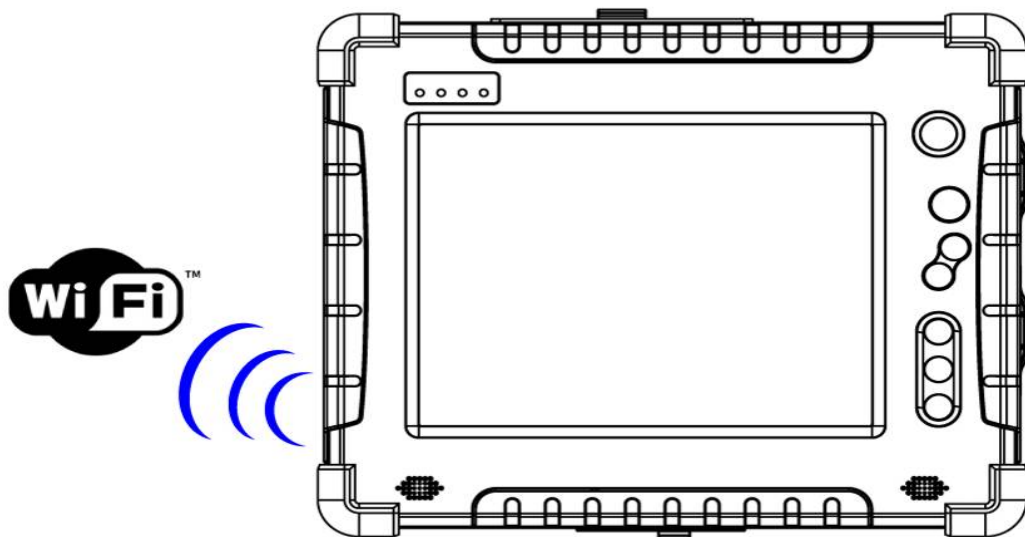


5. Log in password if necessary, and click “OK” to enter detailed connection quality status.



6. The Optimized Use for Wi-Fi, 8.4” / 10.4” /12.1”. (Antenna’s location)

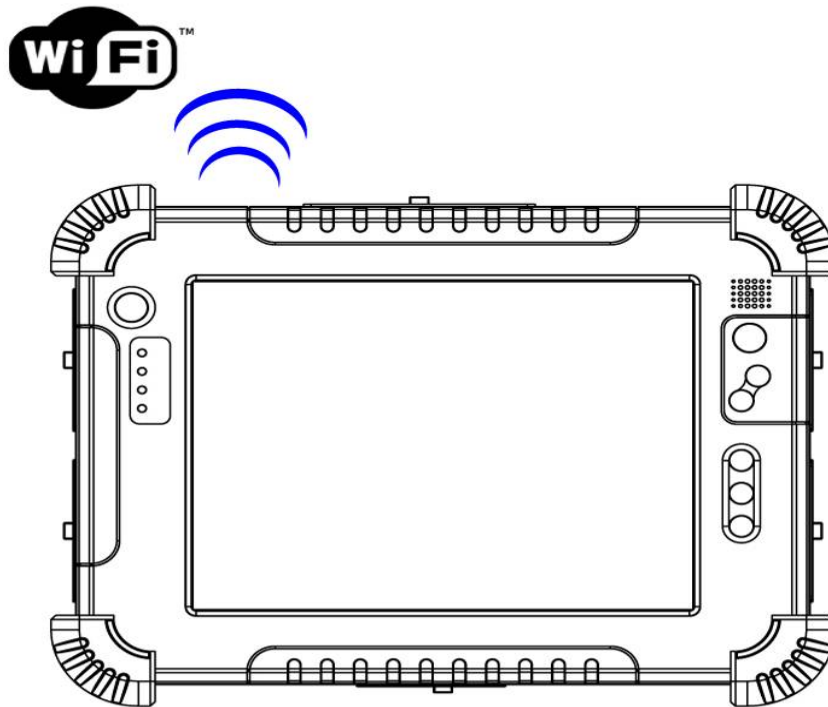
A. 8.4” Wireless Antenna’s location:



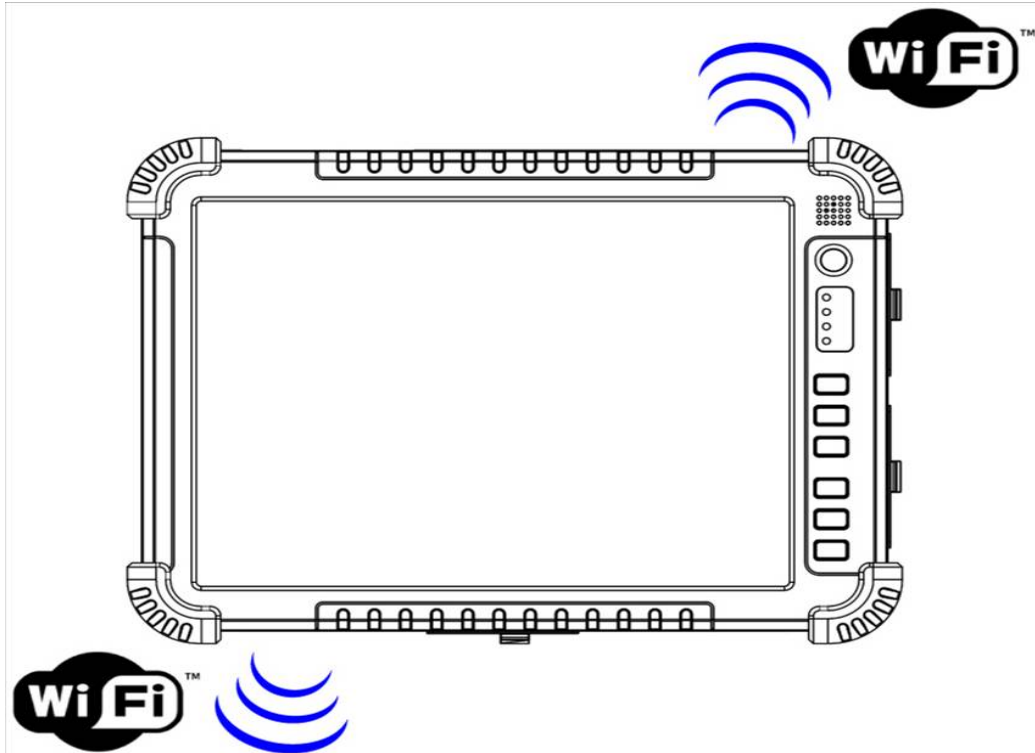




B. 10.4" Wireless Antenna's location:



C. 12.1" Wireless Antenna's location



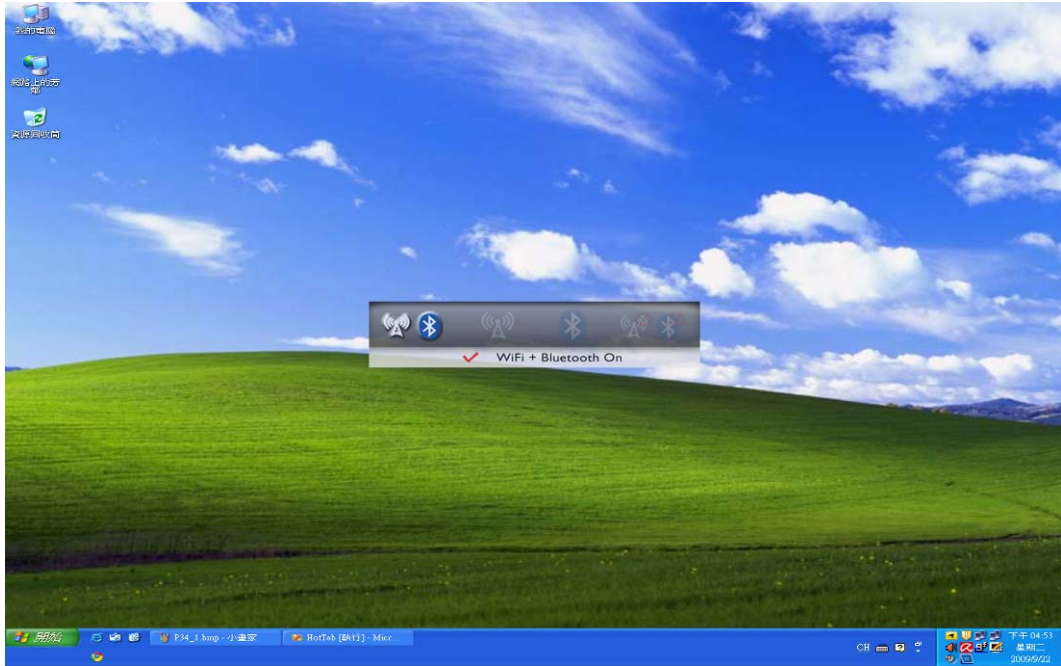


## Rugged Computing

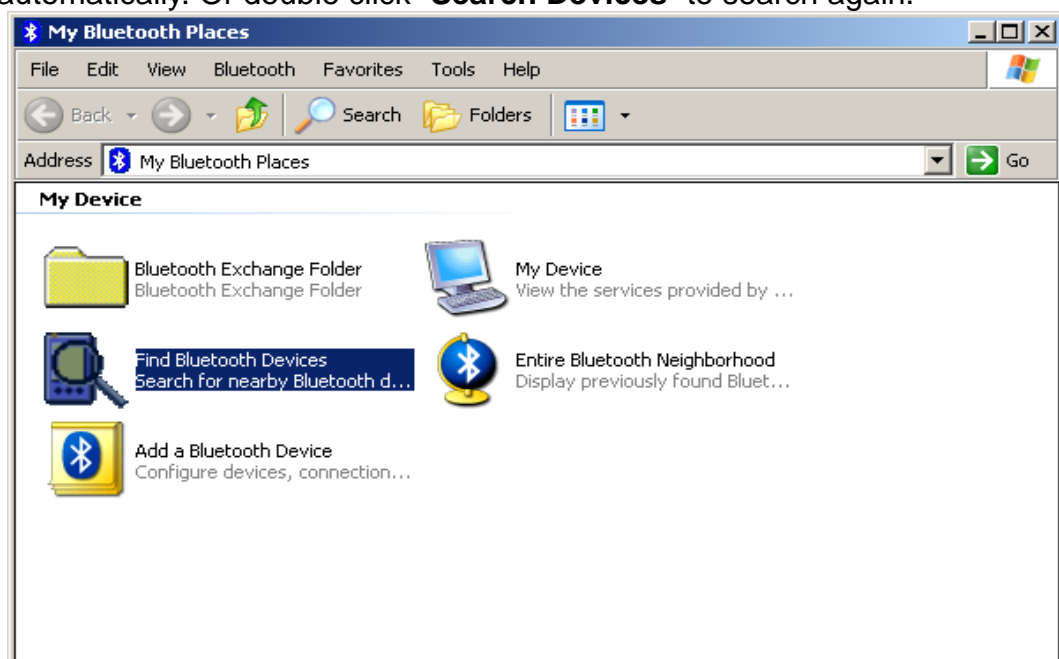
### 2.2.5 Using the Bluetooth Wireless Feature (Optional)

We apply Bluetooth 2.1+ EDR module for default function of the Tablet PC series. Depending on your application, the Bluetooth module can give you capability for short-range wireless communications between devices without requiring a cable connection. The transmission can go through walls, pockets and briefcases as long as two devices are within range around 10 meters. Following the easy step to connect to the Bluetooth communication.

1. Choose **HotTab AP** Menu function and making sure the Bluetooth function is “On”.



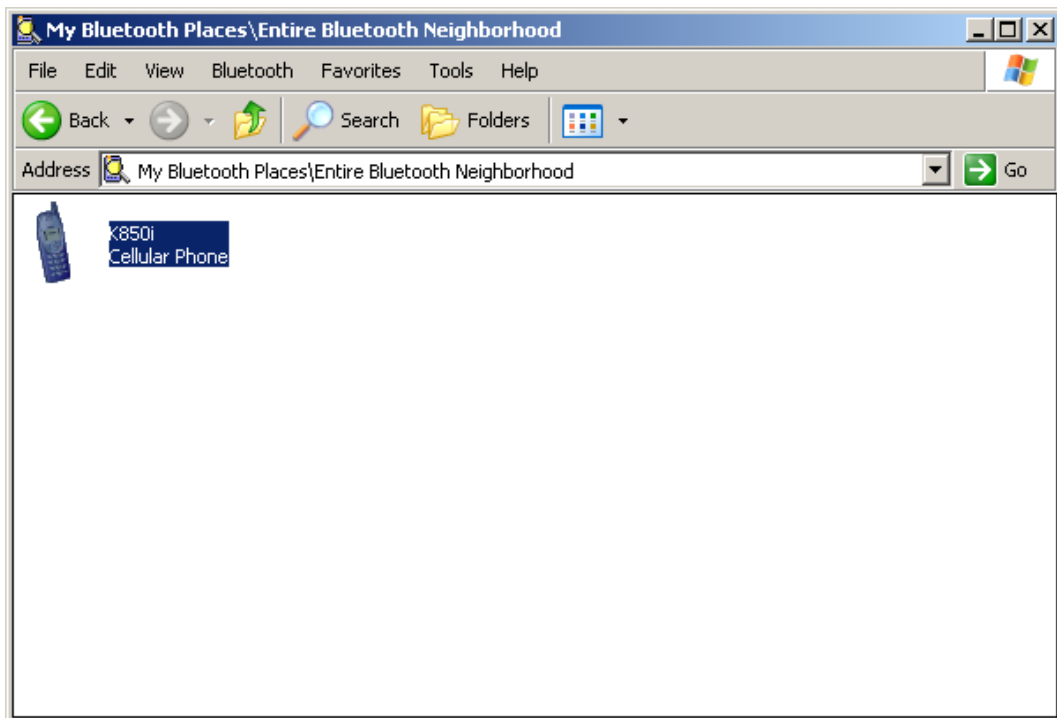
2. After installing the bluetooth driver utility, the Bluetooth icon will shown on screen, double click the icon and it will search any bluetooth device automatically. Or double click “**Search Devices**” to search again.



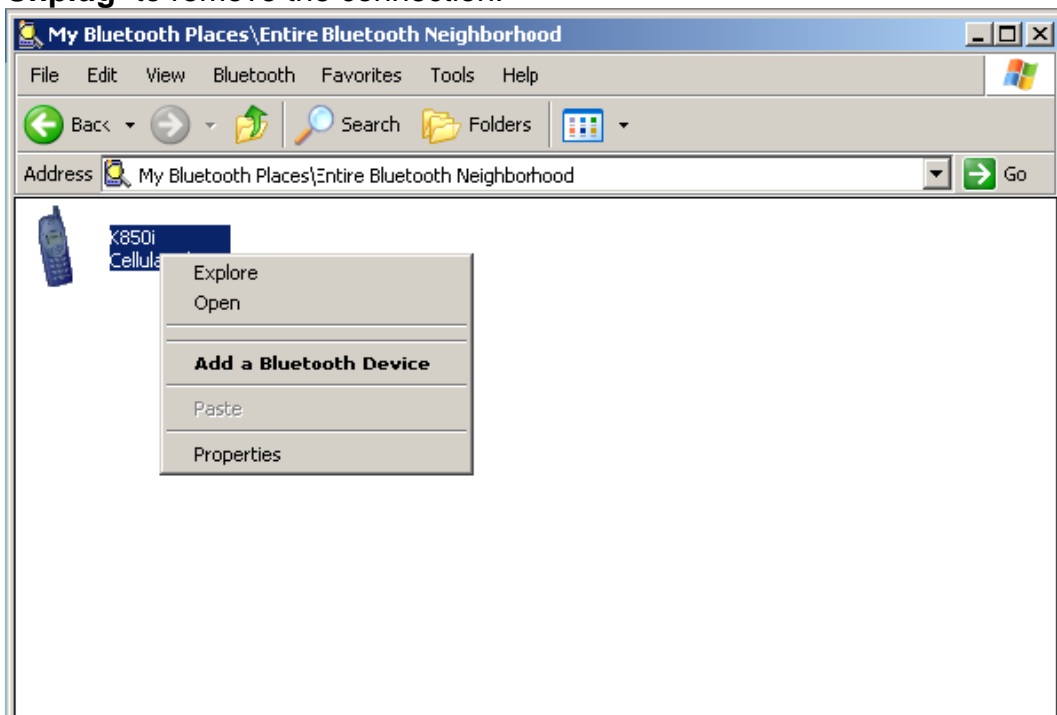


## Rugged Computing

3. Choose the bluetooth device you want to connect, and left click to choose **“Connect”**. Then the device will be connected to the module.



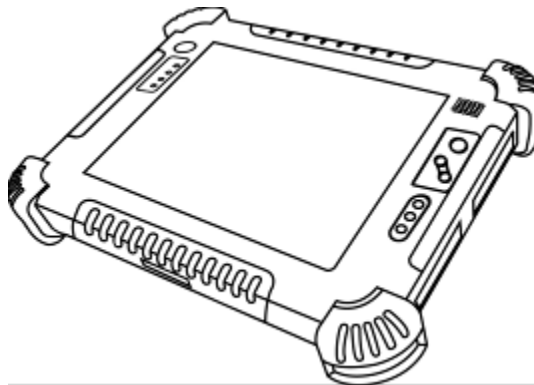
4. When under connecting, left click to check the connection status, or choose **“Unplug”** to remove the connection.





# CHAPTER 3

## Expanding Your Tablet PC



## CHAPTER 3 EXPANDING YOUR TABLET PC

### 3.1 How and When to Use BIOS Setup

For enter to the Tablet PC BIOS setup, you need connect to external USB interface keyboard, press “**Del**” key when the prompt appears on the screen during start up. The prompt screen shows only few seconds so need press Del key quickly.

#### **\*\*NOTICE**

**Updated BIOS version may be published after the manual is released. Check with the latest version of BIOS on website.**

You may need to run BIOS setup utility when the below status.

1. Error message on screen indicate to check BIOS setup.
2. Restoring the factory default settings.
3. Modifying the specific hardware specification
4. Want to optimize the specification.

To control the keyboard to select BIOS utility setup, you need

Keyboard Icon	Function Description
← , →	Selects a menu title
↑ , ↓	Selects an item or option
Enter	Go to the sub-menu when available Opens or closes the option window when an item is selected
Esc	To leave sub-menu and return to main menu.

#### **\*\*NOTICE**

You can press the F1, F9, F10, –/+, and Esc keys by connecting a USB keyboard to your tablet PC. Make sure that the item “**Legacy USB Support**” under the Main menu is set at Enabled (default).



## 3.2 BIOS Functions

### 3.2.1 Main Menu

The main menu contains the information of the Tablet system including BIOS version, processor, system memory, time, and date.

BIOS SETUP UTILITY	
Main	Advanced Boot Security Exit
<b>System Overview</b> <hr/> <b>AMIBIOS</b> Version :08.00.15 Build Version :I980_011T0 EC Version :I980E114 UBIOS Version :800*600 18Bit SC  <b>Processor</b>  Speed :255MHz Count :255  <b>System Memory</b> Size :1019MB  System Time [00:03:50] System Date [Tue 01/01/2002]	
Use [ENTER], [TAB] or [SHIFT-TAB] to select a field.  Use [+] or [-] to configure system Time.  ← Select Screen ↑↓ Select Item +- Change Field Tab Select Field F1 General Help F10 Save and Exit ESC Exit	
v02.61 (C) Copyright 1985-2006, American Megatrends, Inc.	

### 3.2.2 Advanced Menu

The advanced menu contains the configuration information of CPU, IDE/ SATA, ACPI, APM Configuration and Battery Calibration.

BIOS SETUP UTILITY	
Main	Advanced Boot Security Exit
<b>Advanced Settings</b> <hr/> <b>WARNING:</b> Setting wrong values in below sections may cause system to malfunction.  ▶ CPU Configuration ▶ IDE Configuration ▶ ACPI Configuration  <b>Battery Calibration</b>	
Configure CPU.         ← Select Screen ↑↓ Select Item Enter Go to Sub Screen F1 General Help F10 Save and Exit ESC Exit	
v02.61 (C) Copyright 1985-2006, American Megatrends, Inc.	

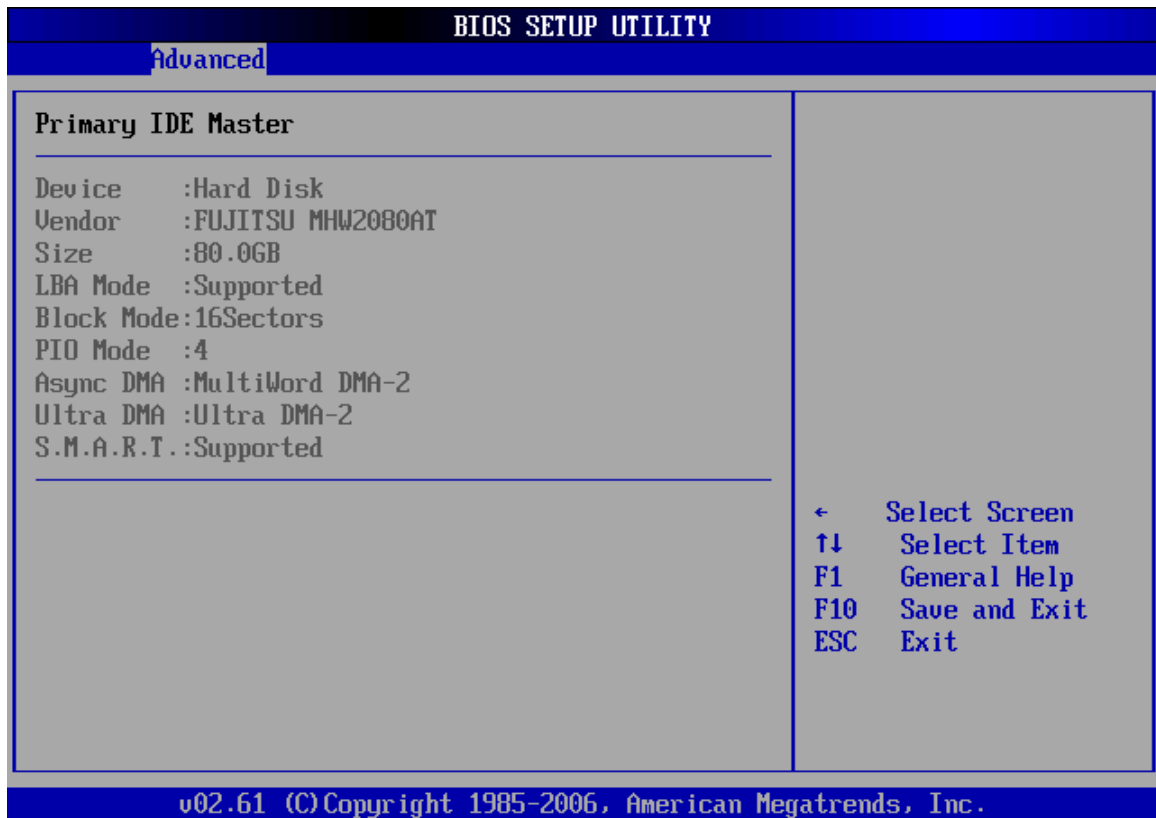


## 1. CPU Configuration

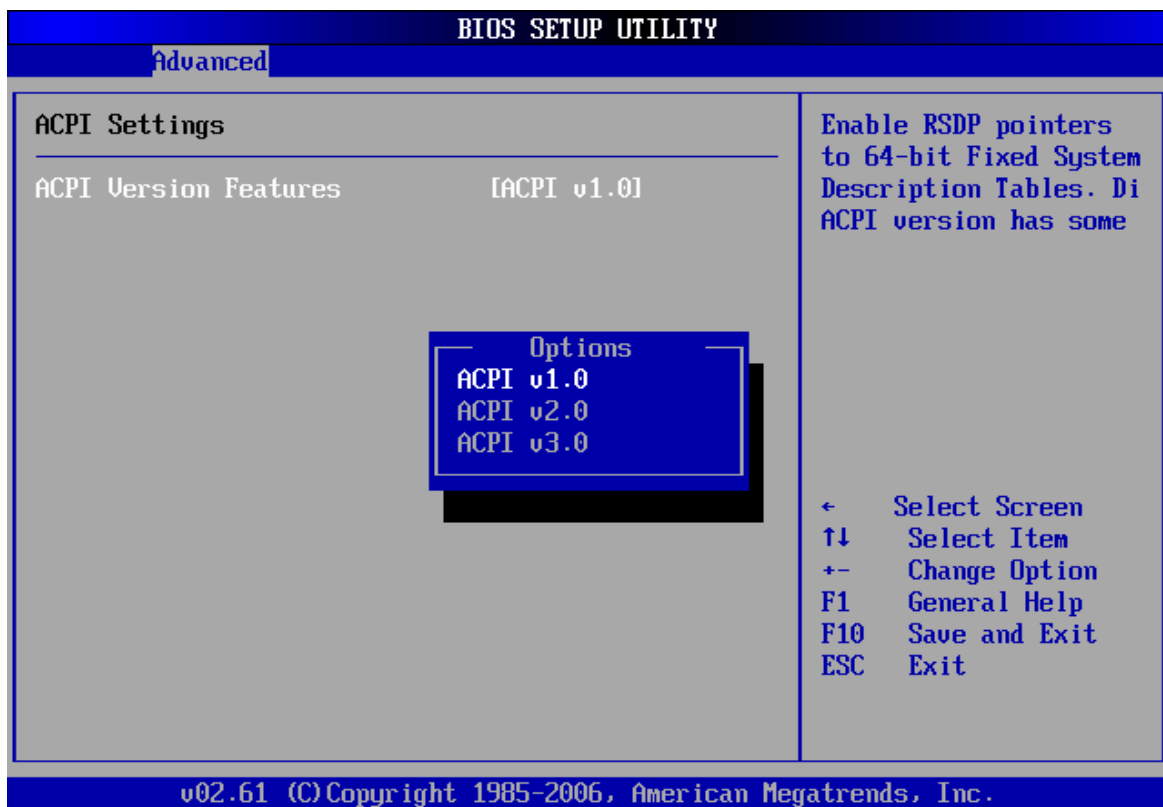
BIOS SETUP UTILITY	
Advanced	
Configure advanced CPU settings Module Version:3F.15	Disabled for WindowsXP
Manufacturer: Intel	
Frequency : 1.60GHz	
FSB Speed : 400MHz	
Cache L1 : 0 KB	
Cache L2 : 0 KB	
Ratio Actual Value: 11	
Max CPUID Value Limit [Disabled]	
Execute-Disable Bit Capability [Enabled]	
Hyper Threading Technology [Enabled]	
	← Select Screen ↑↓ Select Item +- Change Option F1 General Help F10 Save and Exit ESC Exit
v02.61 (C) Copyright 1985-2006, American Megatrends, Inc.	

## 2. IDE/ SATA Configuration

BIOS SETUP UTILITY	
Advanced	
IDE Configuration	Options
ATA/IDE Configuration [Compatible]	Disabled Compatible
▶ Primary IDE Master : [Hard Disk]	
▶ Primary IDE Slave : [Not Detected]	
	← Select Screen ↑↓ Select Item +- Change Option F1 General Help F10 Save and Exit ESC Exit
v02.61 (C) Copyright 1985-2006, American Megatrends, Inc.	



### 3. ACPI Configuration







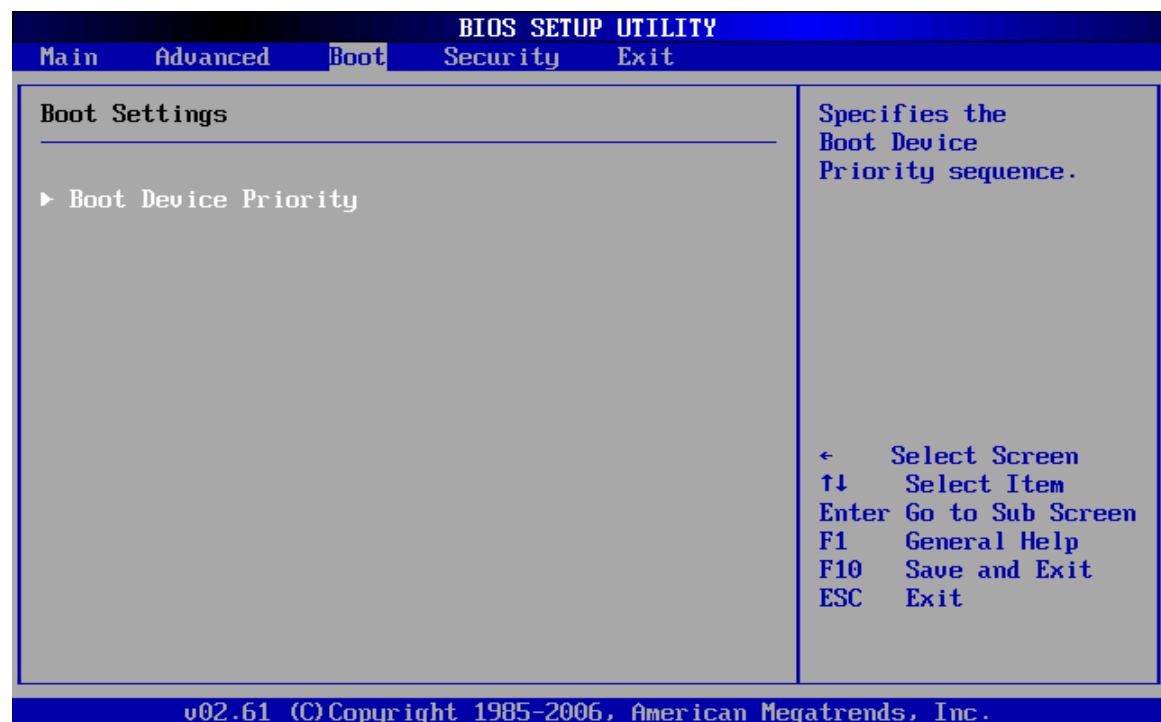
#### 4. Battery Calibration

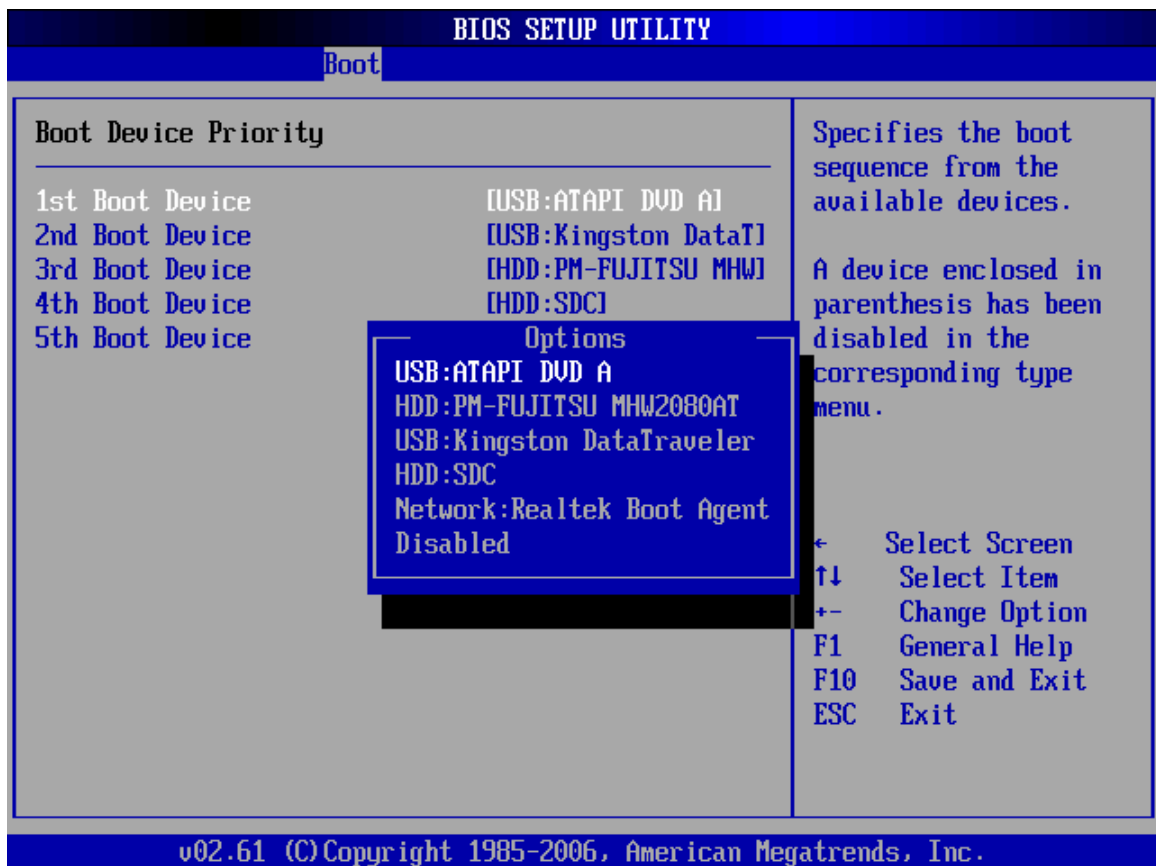
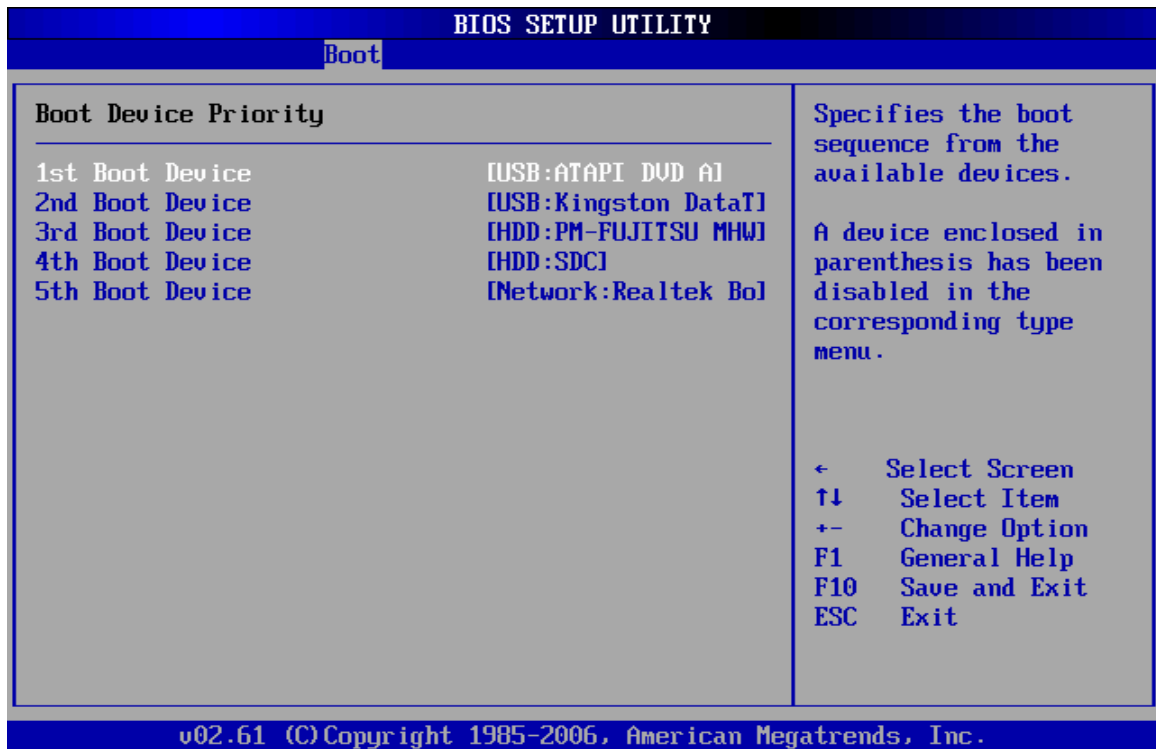


#### 3.2.3 Boot Menu

The Boot menu sets the sequence of the devices to be searched for the operating system.

The bootable devices will be automatically detected during POST and shown here, allowing you to set the sequence that the BIOS uses to look for a boot device from which to load the operating system. A brief description of button usage is listed next:





Check the Hard Disk Device in **Hard Disk Drives**.



### 3.2.4 Security Menu

Change Supervisor Password, Change User Password and Clear User Password.

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Exit
<b>Security Settings</b> <hr/> Supervisor Password :Installed  Change Supervisor Password Password Check [Setup]  Boot Sector Virus Prote			Install or Change the password.          ← Select Screen ↑↓ Select Item Enter Change F1 General Help F10 Save and Exit ESC Exit	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Enter New Password </div>				
v02.61 (C) Copyright 1985-2006, American Megatrends, Inc.				

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Exit
<b>Security Settings</b> <hr/> Supervisor Password :Installed  Change Supervisor Password Password Check [Setup]  Boot Sector Virus Protec			Install or Change the password.          ← Select Screen ↑↓ Select Item Enter Change F1 General Help F10 Save and Exit ESC Exit	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> Password uninstalled.   [OK] </div>				
v02.61 (C) Copyright 1985-2006, American Megatrends, Inc.				



### 3.2.5 Exit Menu

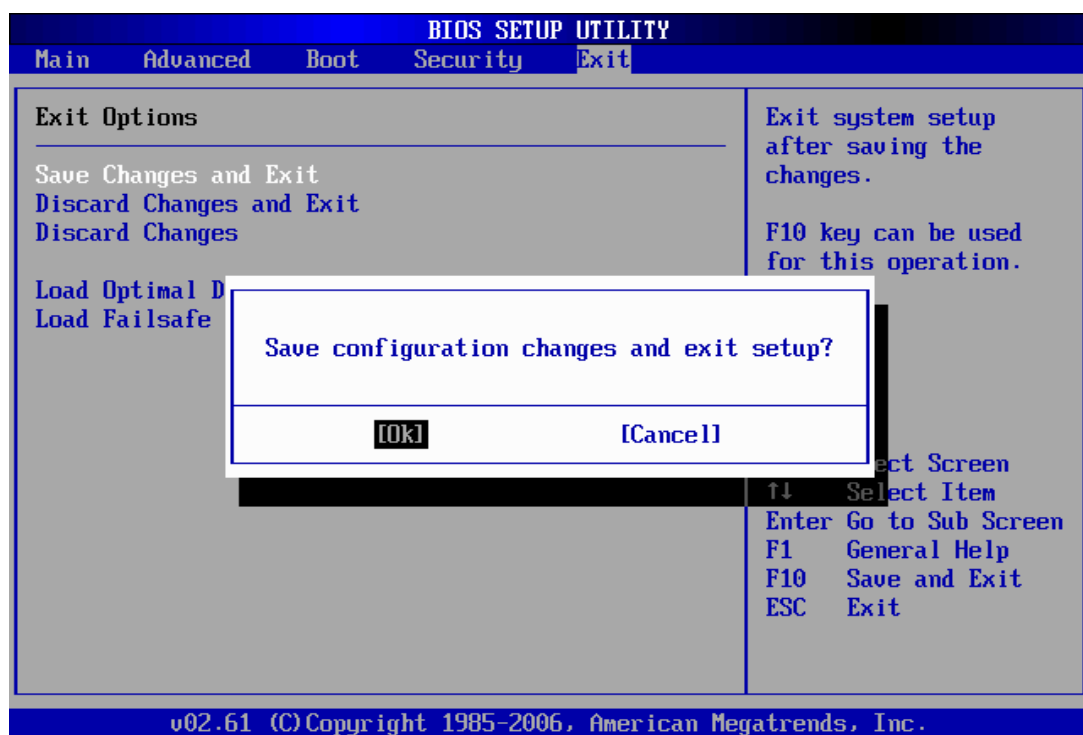
The Exit menu displays ways of exiting BIOS Setup utility. After finishing with your settings, you must save and exit so that the changes can take effect.

**Save Changes and Exit** saves the changes you have made and exits BIOS Setup utility.

**Discarding Changes and Exit** exits BIOS Setup utility without saving the changes you have made.

**Discard Changes** restores the previous values for all the items.

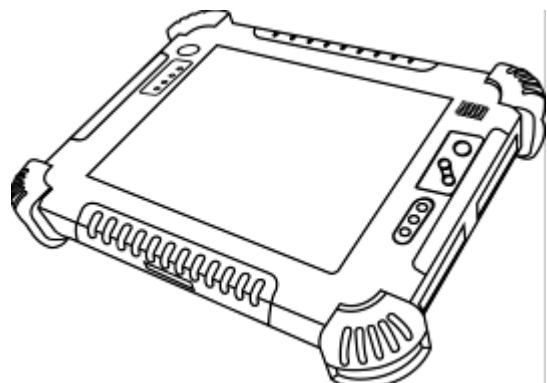
**Load Optimal Default** loads the factory default values for all the items.





# CHAPTER 4

## Driver Installation



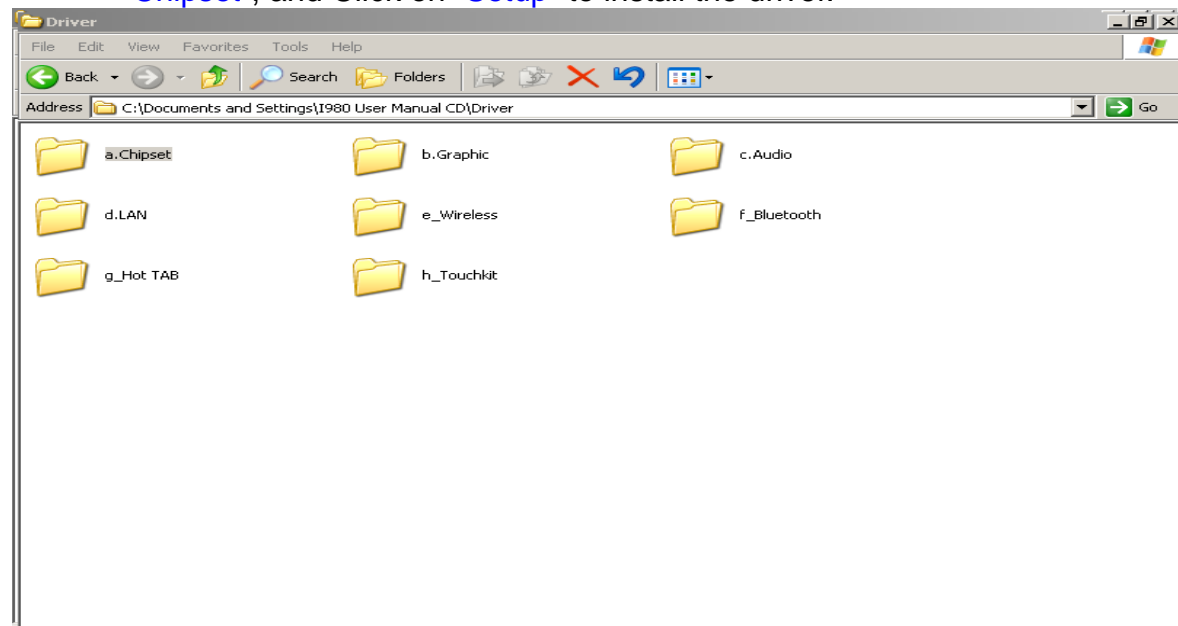


## CHAPTER 4 DRIVER INSTALLATION

Through Chapter 4.1 to 4.8 to go further for Rugged Tablet PC driver installation guide for [Windows XP Professorial](#), you can easily install all related drivers if without operation system by yourself. **The default system will include operation system and you need to install drivers at first time use.**

### 4.1 Installation of Chipset Driver Installation

**Step.1** Insert the Driver Utility CD into CD-ROM. Open the file folder named “[a\\_Chipset](#)”, and Click on “[Setup](#)” to install the driver.



**Step.2** Click on “Next” to install driver.





**Step.3** Click on “Yes” to install the driver.



**Step.4** Follow the step by step and click on “Next” to install the driver, then Click on “Yes, I want to restart this computer now” to proceed.

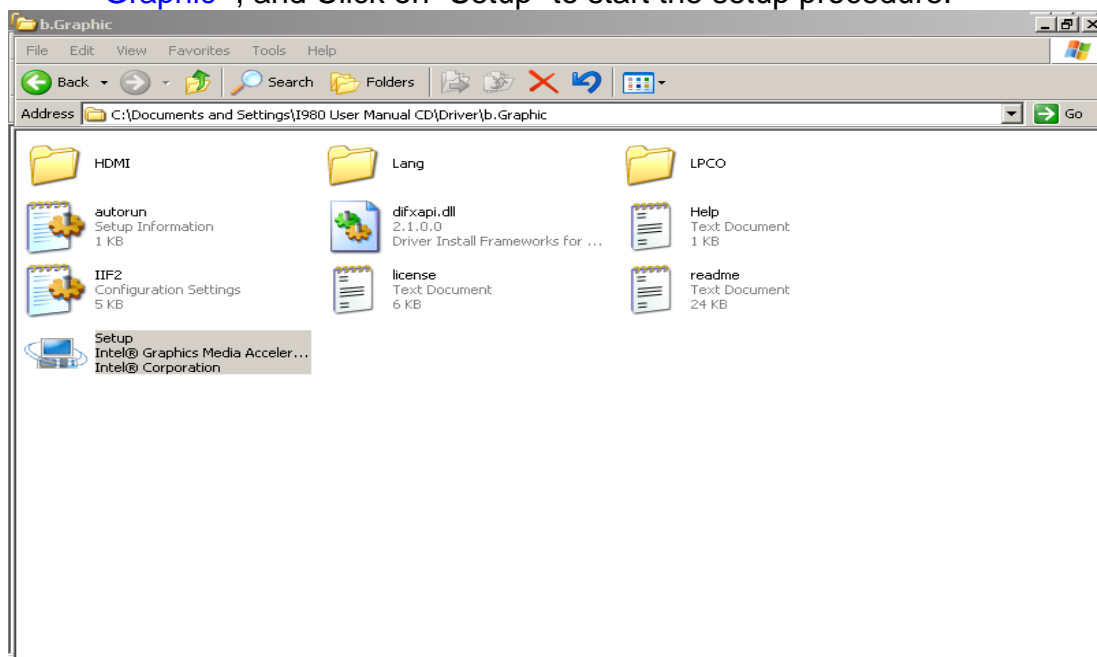




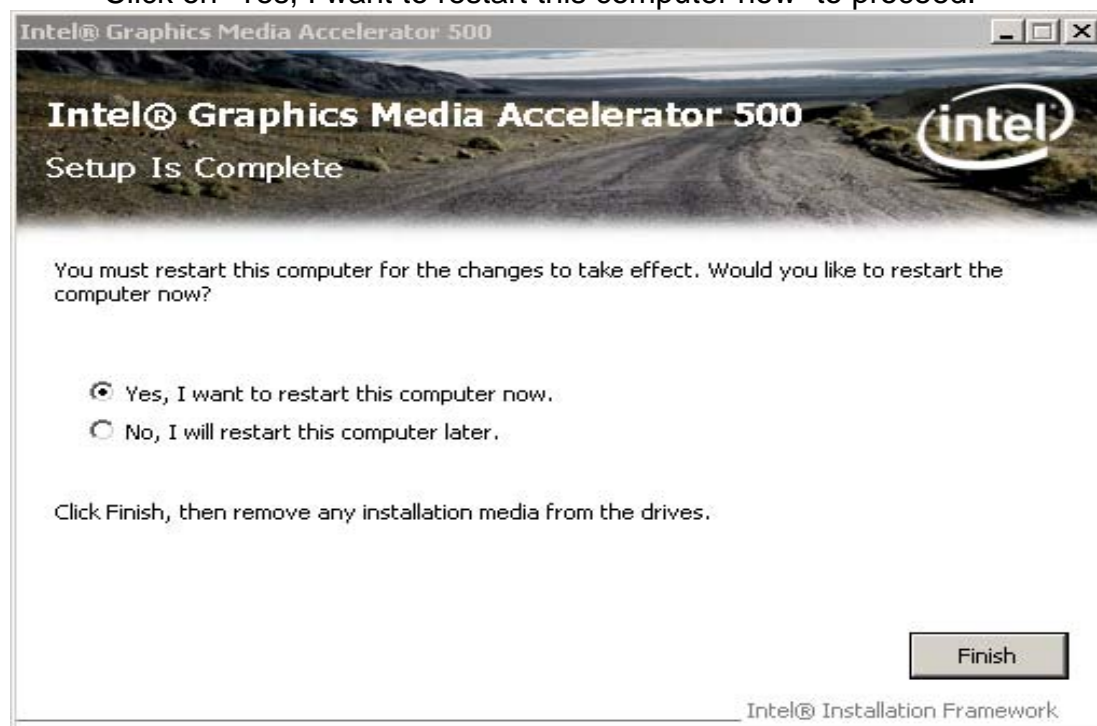
## 4.2 Graphic Driver Installation

The system is equipped with Intel 945 GSE Chipset + US15W Companion Device. The Intel Graphic Drivers should be installed first, and it will enable “Video Controller (VGA compatible)”. Follow the instructions below to complete the installation. You will quickly complete the installation.

**Step.1** Insert the Driver Utility CD into CD-ROM. Open the file folder named “b\_Graphic”, and Click on “Setup” to start the setup procedure.



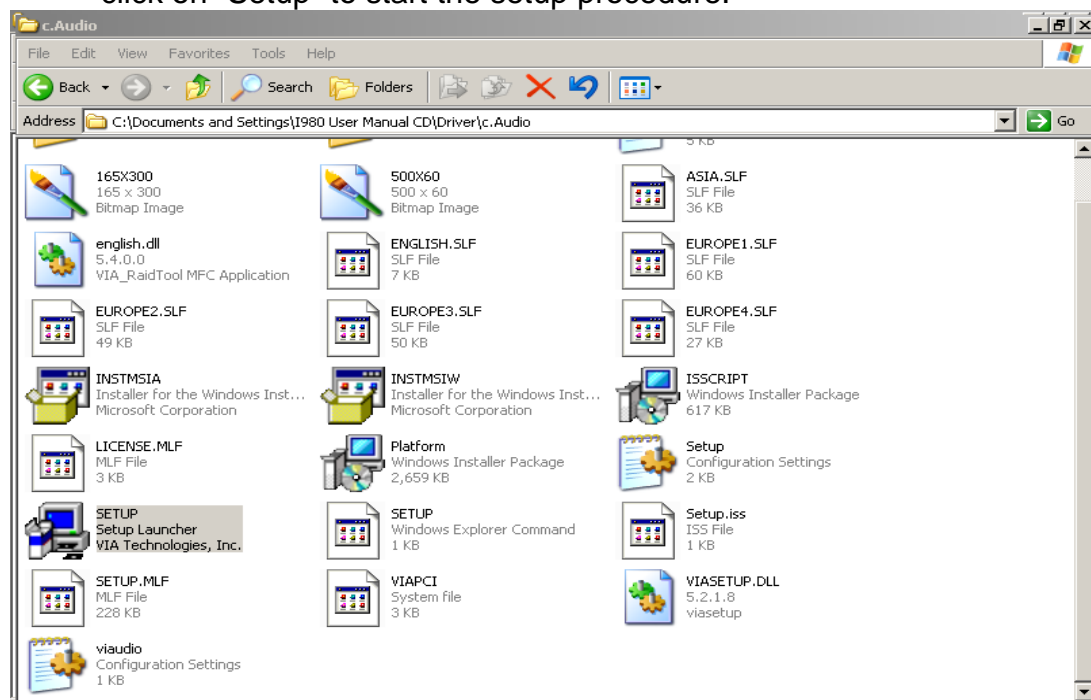
**Step.2** Follow the step by step and click on “Next” to install the Driver, then click on “Yes, I want to restart this computer now” to proceed.



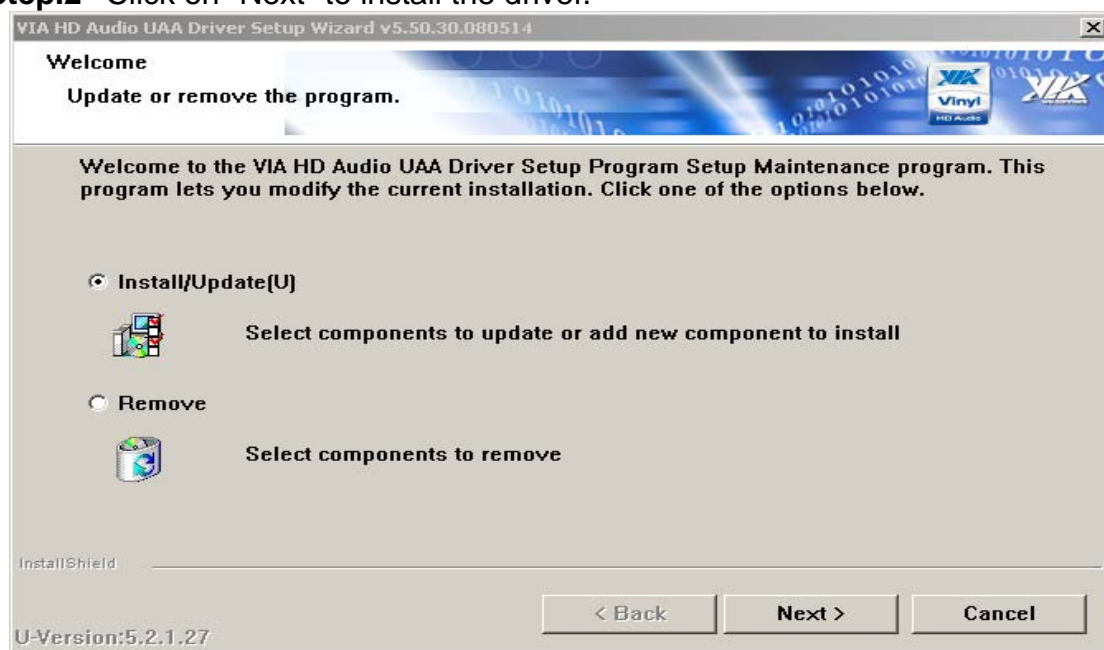


The VT1708A HAD is a High Definition Audio Codec. Build-in High Quality Headphone Amplifier and 4 Stereo DACs, Support 16-bit and 192 KHz Samples. It integrates Sample Rate Converters on all channels. This codec is designed with aggressive power management to achieve low power consumption.

**Step.1** Insert the Driver Utility CD. Open the file folder named “c\_Audio” and click on “Setup” to start the setup procedure.

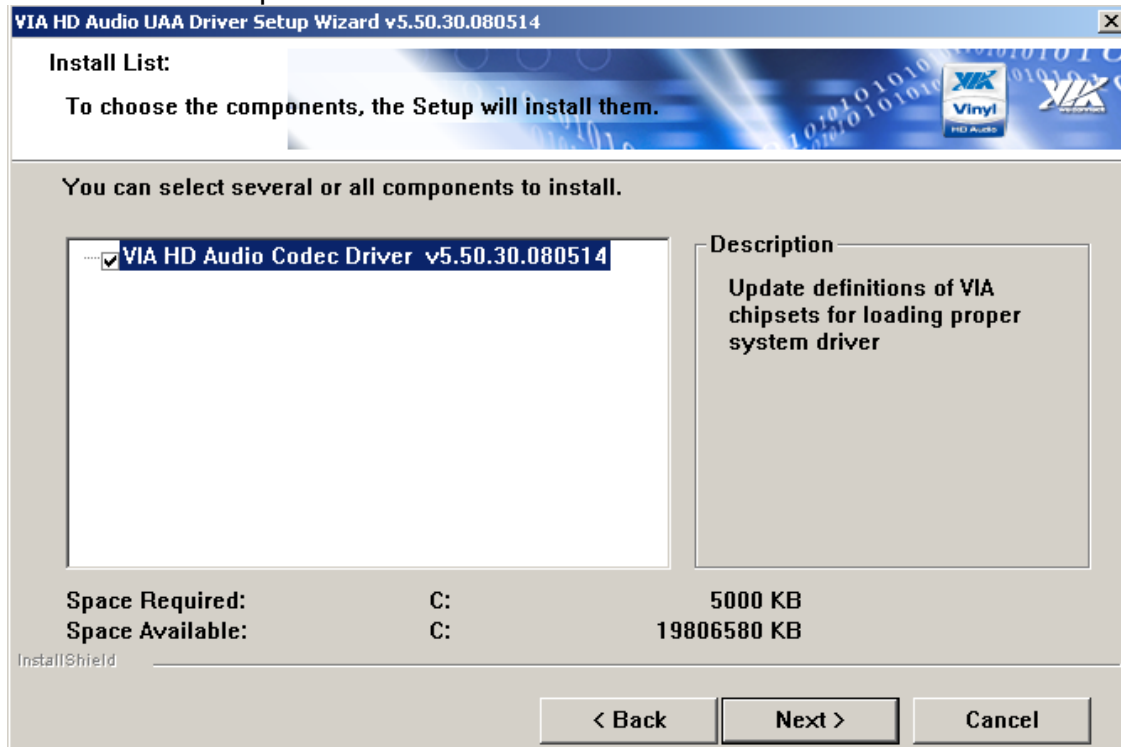


**Step.2** Click on “Next” to install the driver.

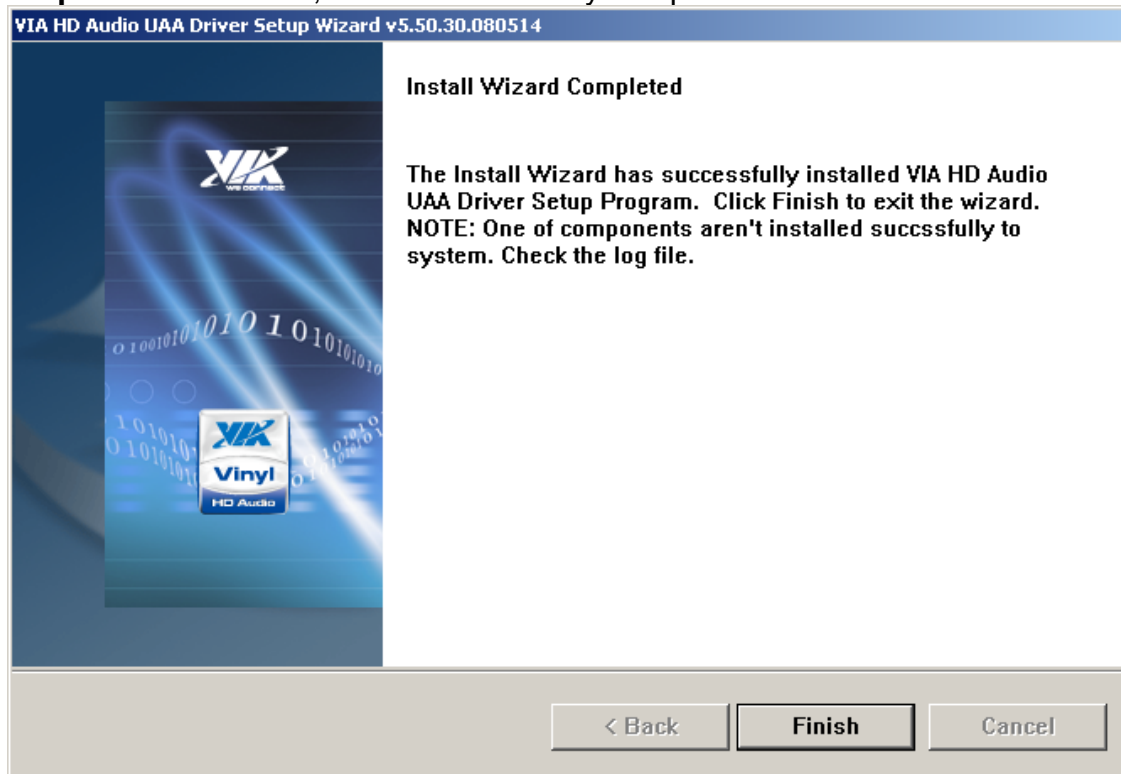




**Step.3** Click on “VIA HD Audio Codec Driver v5.50.30.080514” then click on “Next” to proceed.



**Step.4** Click on “Yes, I want to restart my computer now” to finish the installation.

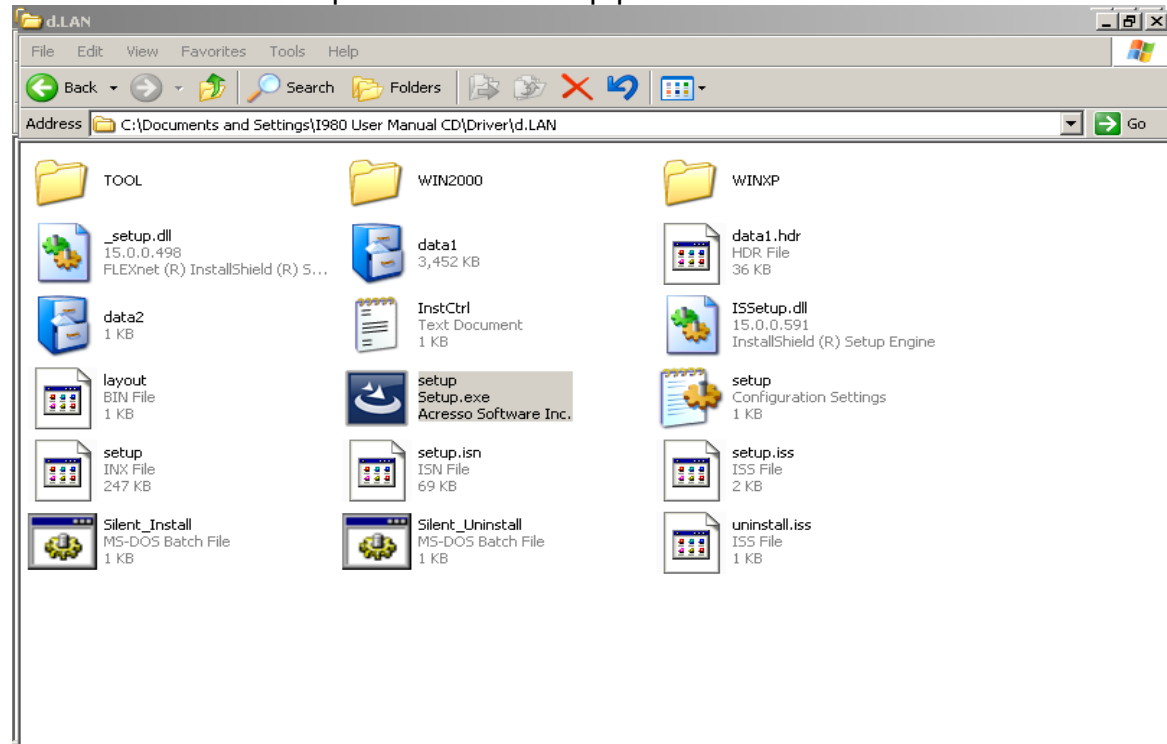




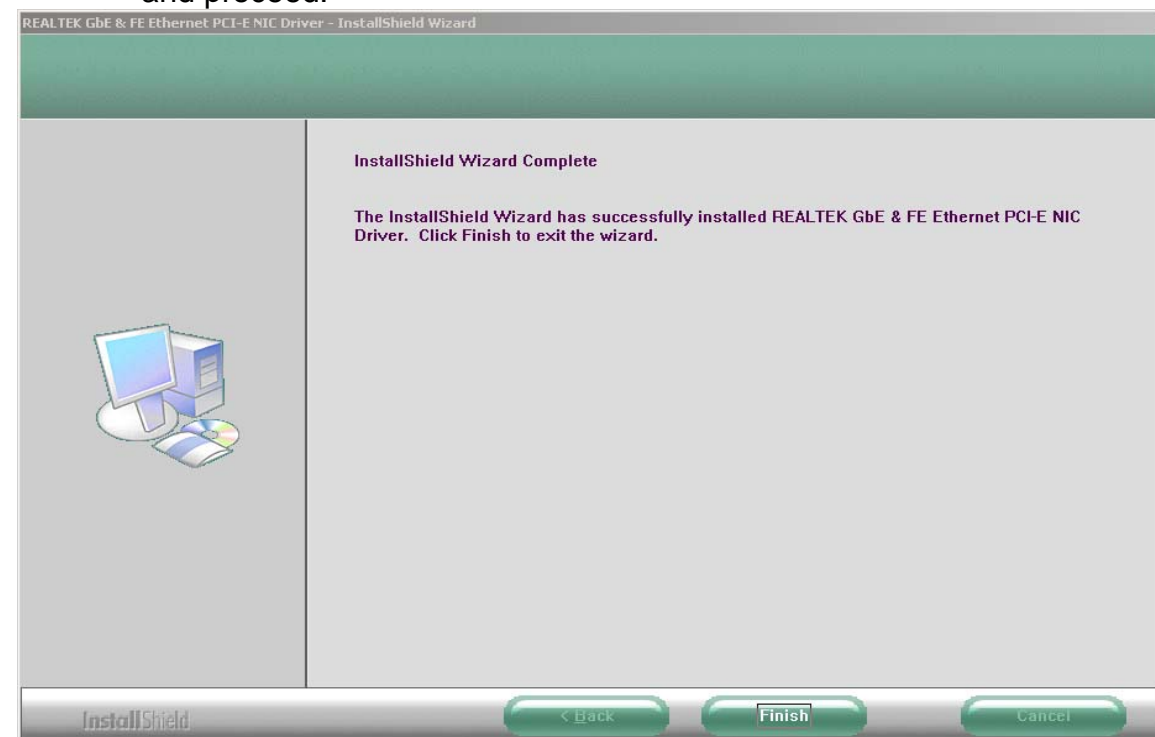
## 4.4 LAN Driver Installation

Follow the steps below to complete the installation of the Realtek RTL8111B LAN drivers. You will quickly complete the installation.

**Step.1** Insert the Driver Utility CD. Open the file folder named “d\_LAN”, and Click on “Setup” to start the setup procedure.



**Step.2** Click on “Next” and step by step to install the driver then click on “Finish” and proceed.

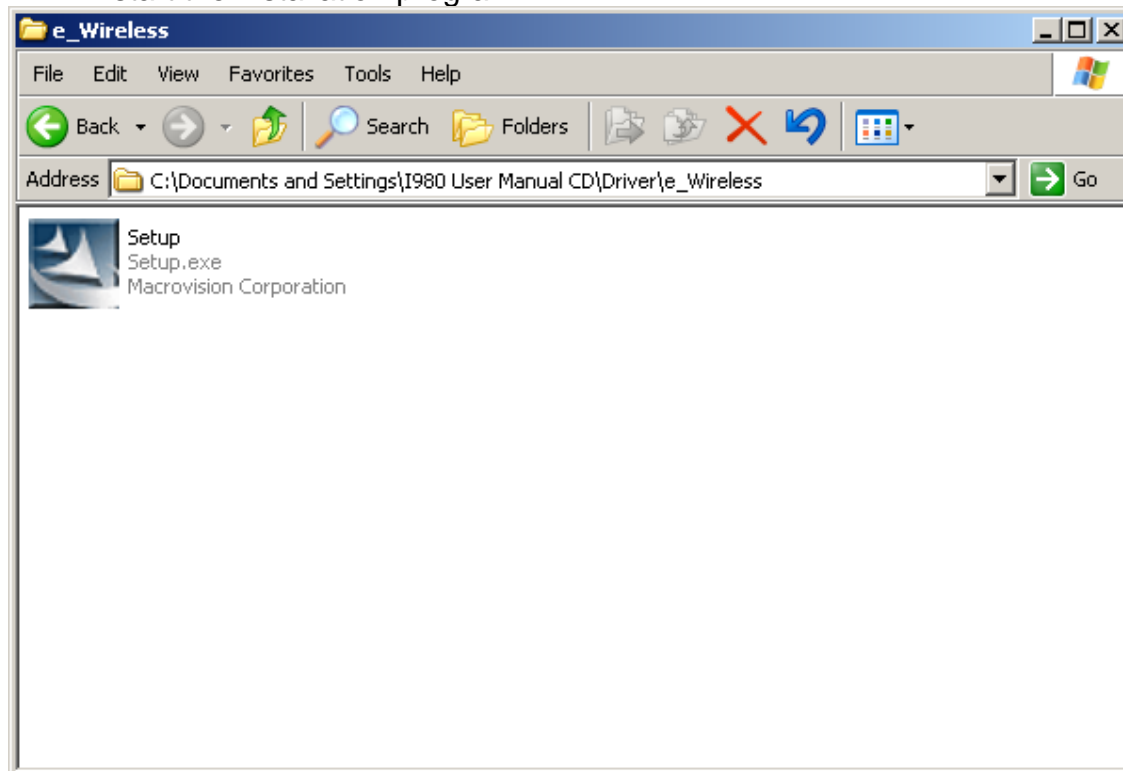




## 4.5 Wireless LAN Driver Installation

Following the step by step to finish the driver installation

**Step.1** Insert the Driver Utility CD. Open the file folder named “e\_Wireless” to start the installation program.



**NOTE:** If you have installed your HotTab function, you must enable the wireless to install your wireless driver.



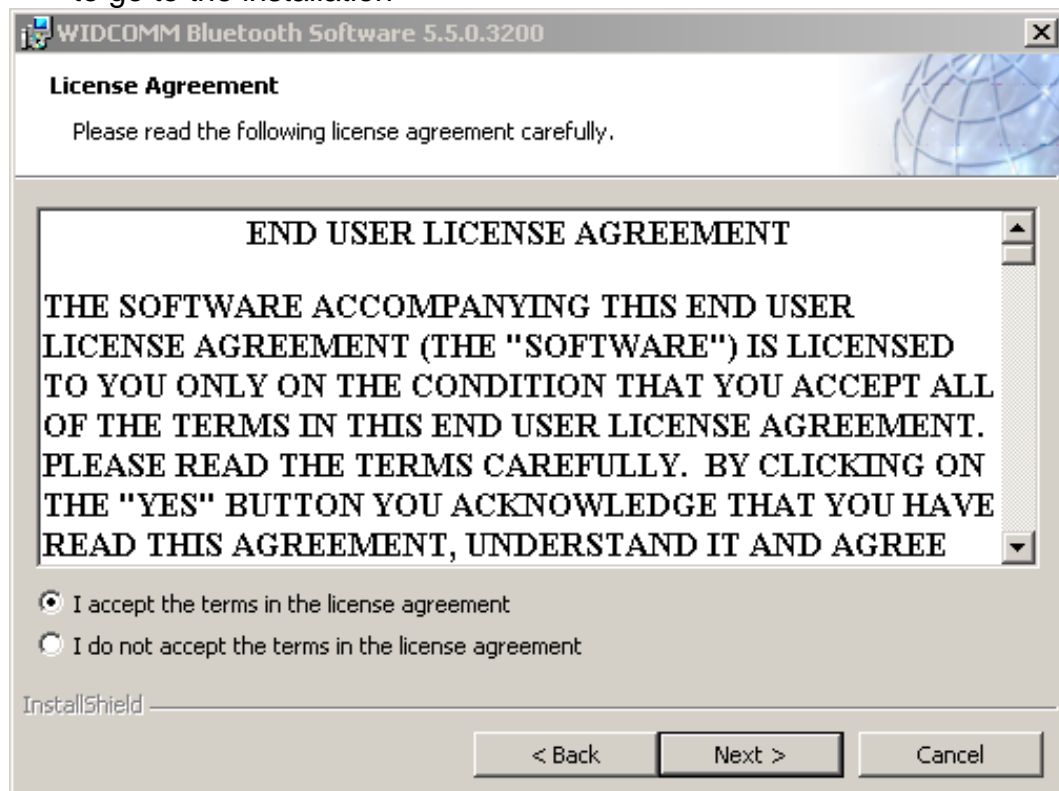
#### 4.6 Bluetooth Driver Installations

Following the step by step to finish the driver installation

- Step.1** Insert the Driver Utility CD. Open the file folder named “f\_ Bluetooth”. Press “Install” to start the installation program.

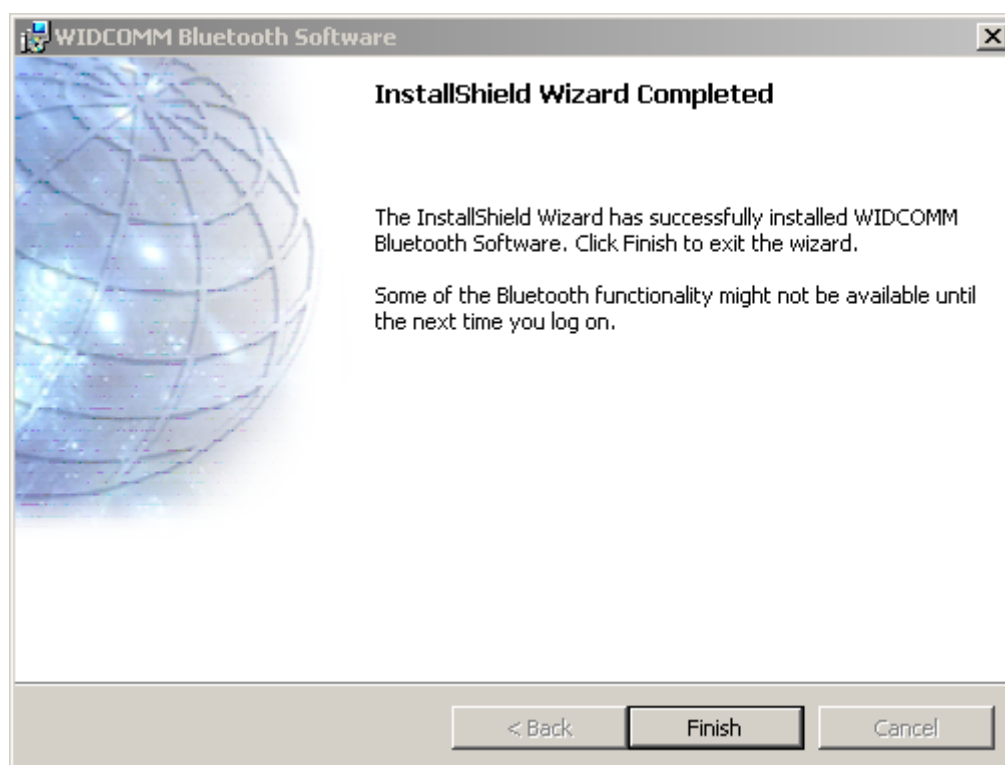
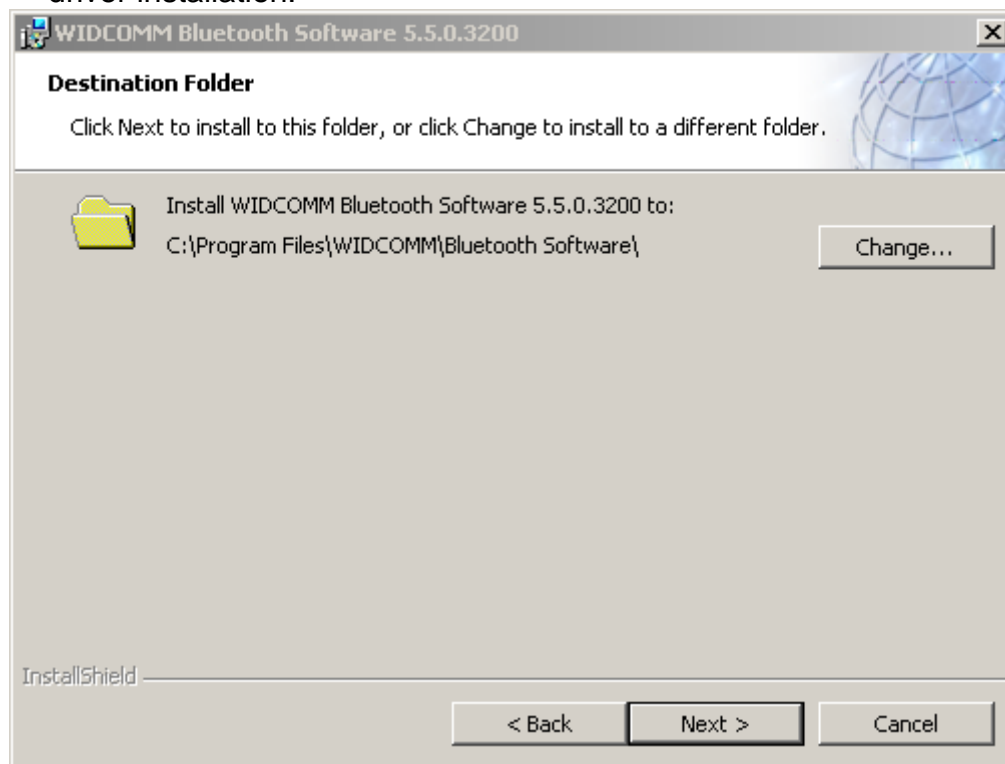


- Step.2** Choose “I accept the terms in the license agreement” item and click “Next” to go to the installation





**Step.3** Follow the installation procedure step by step and click “Next” to finish the driver installation.

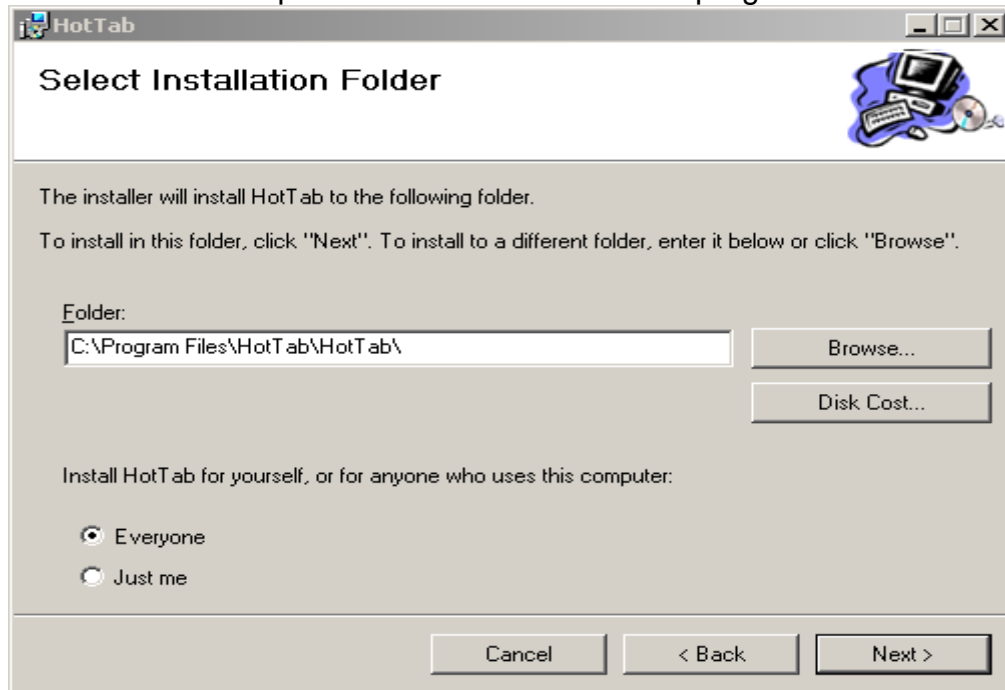




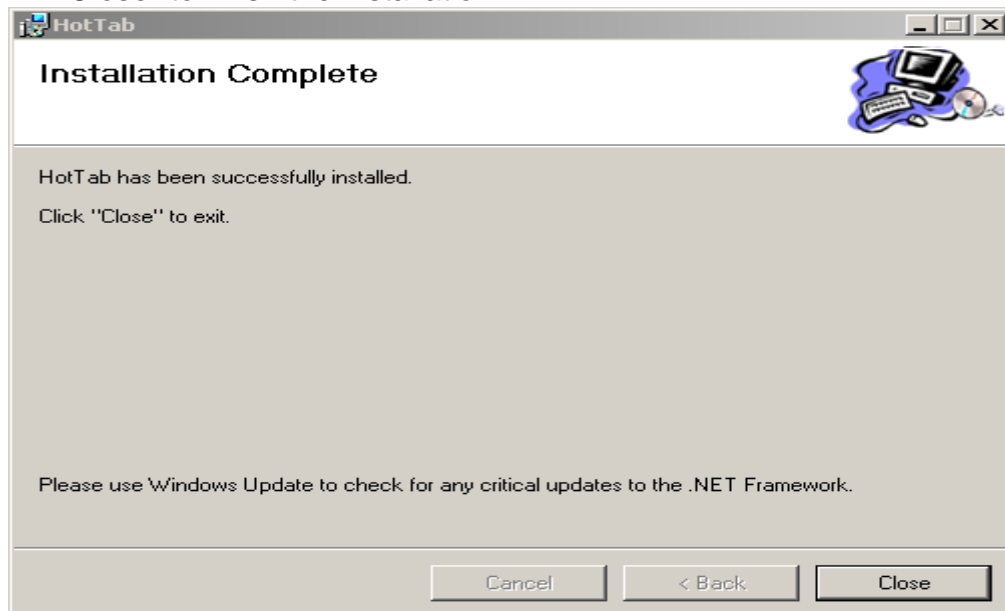
#### 4.7 HotTab Utility Driver Installations

With our HotTab software application utility, user can very easy to control and program their usual hotkey for help their job.

**Step.1** Insert the Driver Utility CD. Open the file folder named “g\_ Hot TAB”. Press the “Setup.exe” to start the installation program.



**Step.2** Following the step by step and click “Next” to start the installation, Click “Close” to finish the installation.



**Note:** Microsoft .NET Framework 2.0 is necessary before HotTab utility installation. You can download from the following link.

<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856EACB-4362-4B0D-8EDD-AAB15C5E04F5&displaylang=en>



#### 4.8 Touch Driver Installation

Touch Kit is the Premier Touch software, which contains drivers of the touch panel controllers for the specified communication connectors, RS232, PS/2 and USB, and the other two utilities.

The two utilities are as follows:

- Touch Tray support

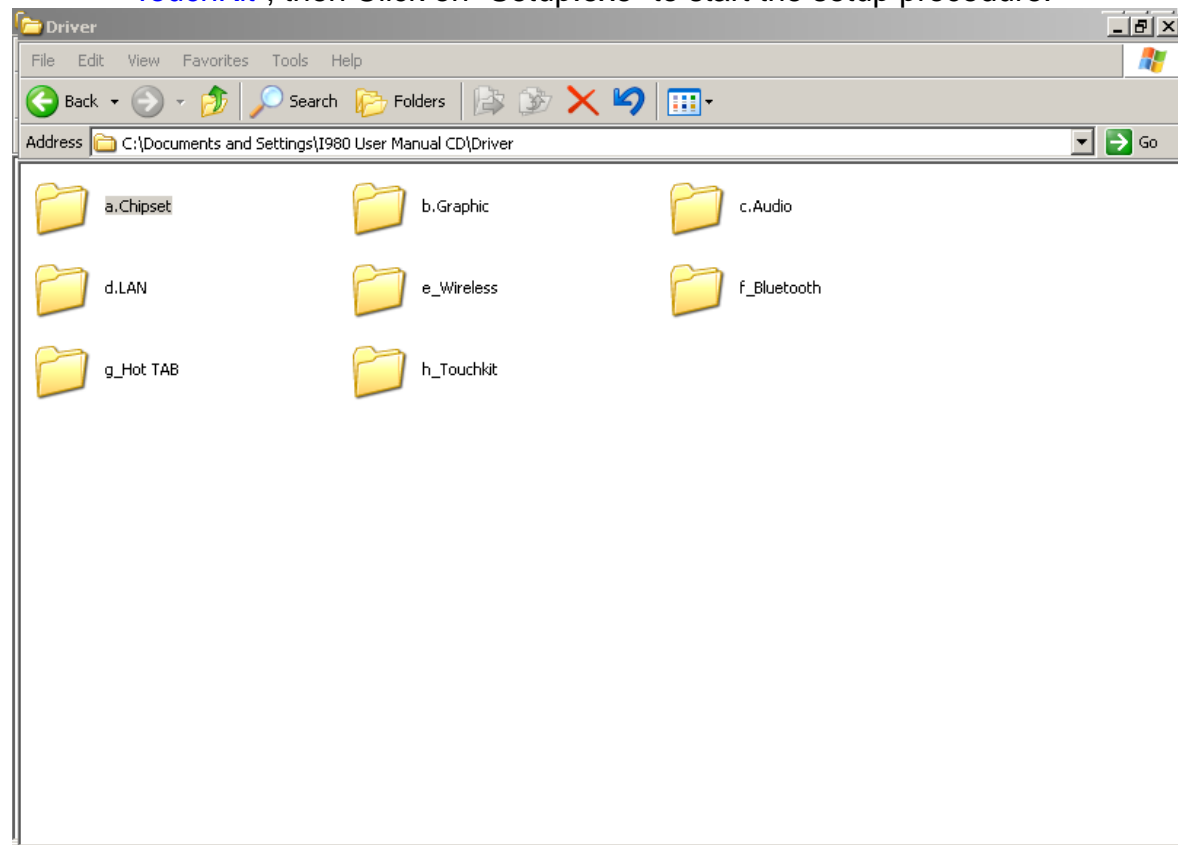
This is utility for emulating the right and left button of mouse through controlling touch panel. Users can toggle between right or left mouse buttons by this utility.

- Configuration support

The calibration and draw test of touch panel are done by this utility. Besides, users can add or remove for new RS-232 or PS/2 touch panel devices.

Follow these steps to install Touch Kit.

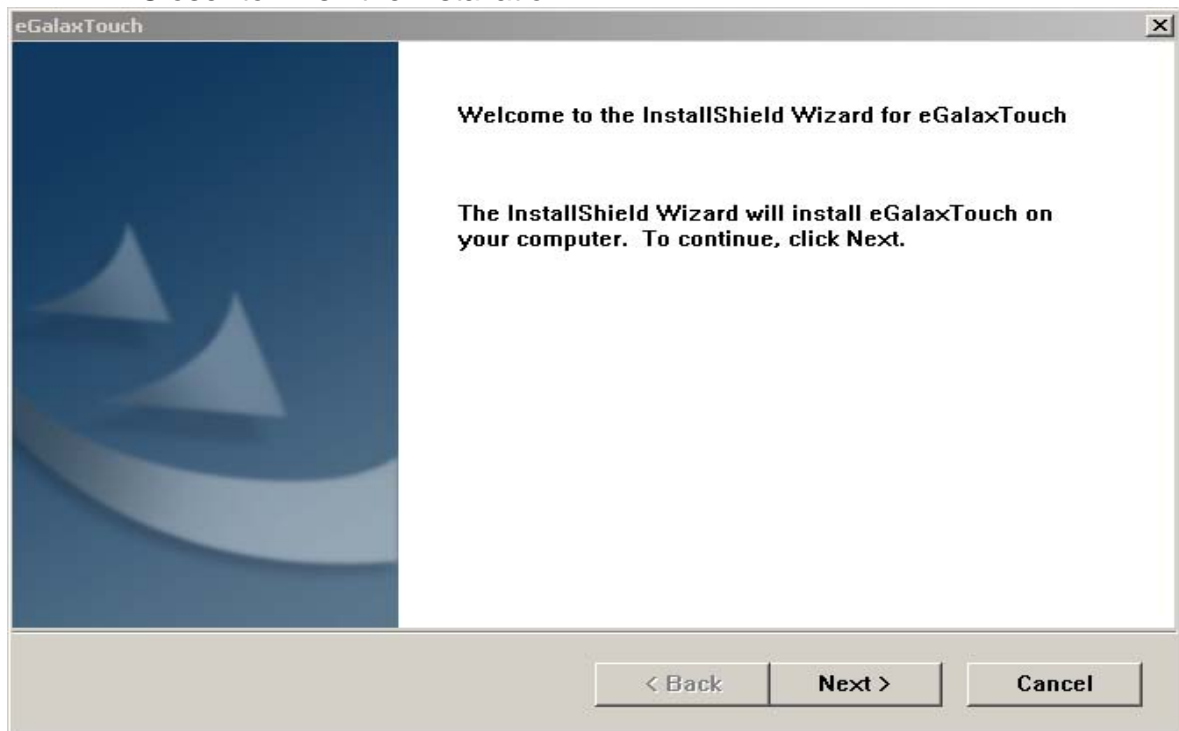
**Step.1** Insert the Driver Utility CD into CD-ROM. Open the file folder named “h\_[TouchKit](#)”, then Click on “Setup.exe” to start the setup procedure.



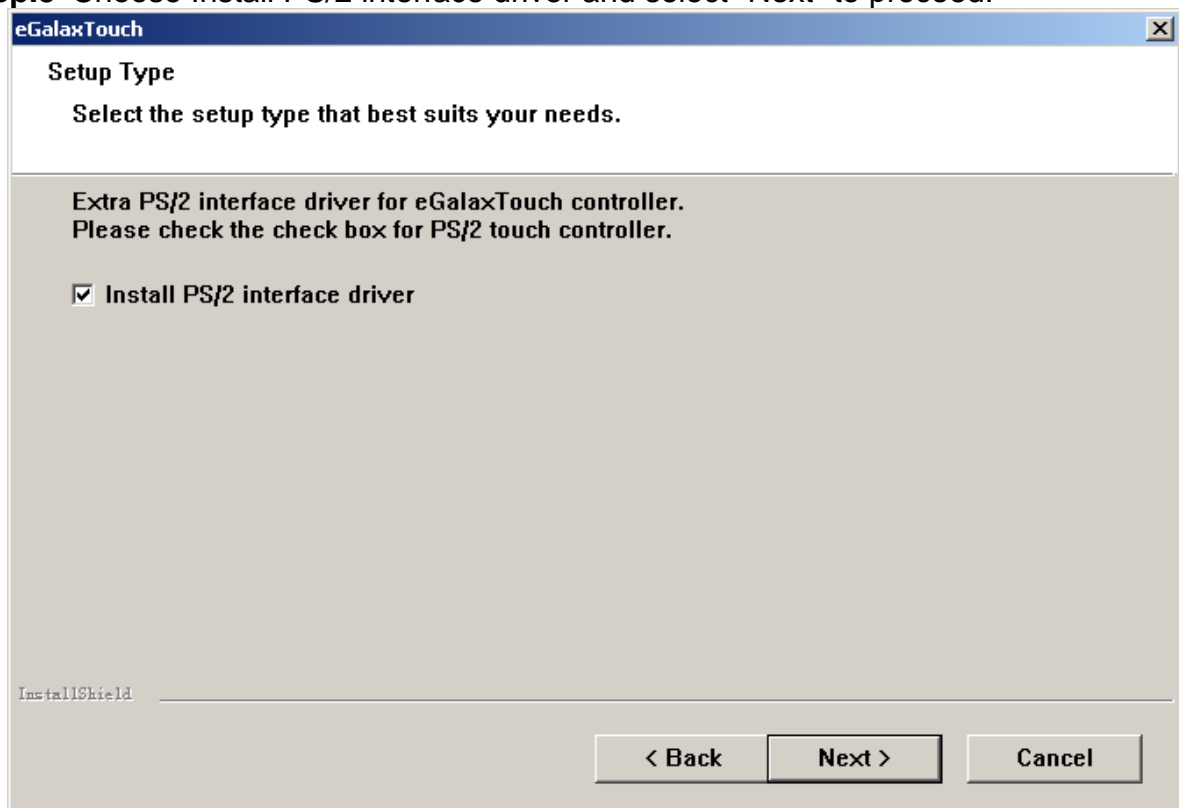




**Step.2** Following the step by step and click “Next” to start the installation, Click “Close” to finish the installation.

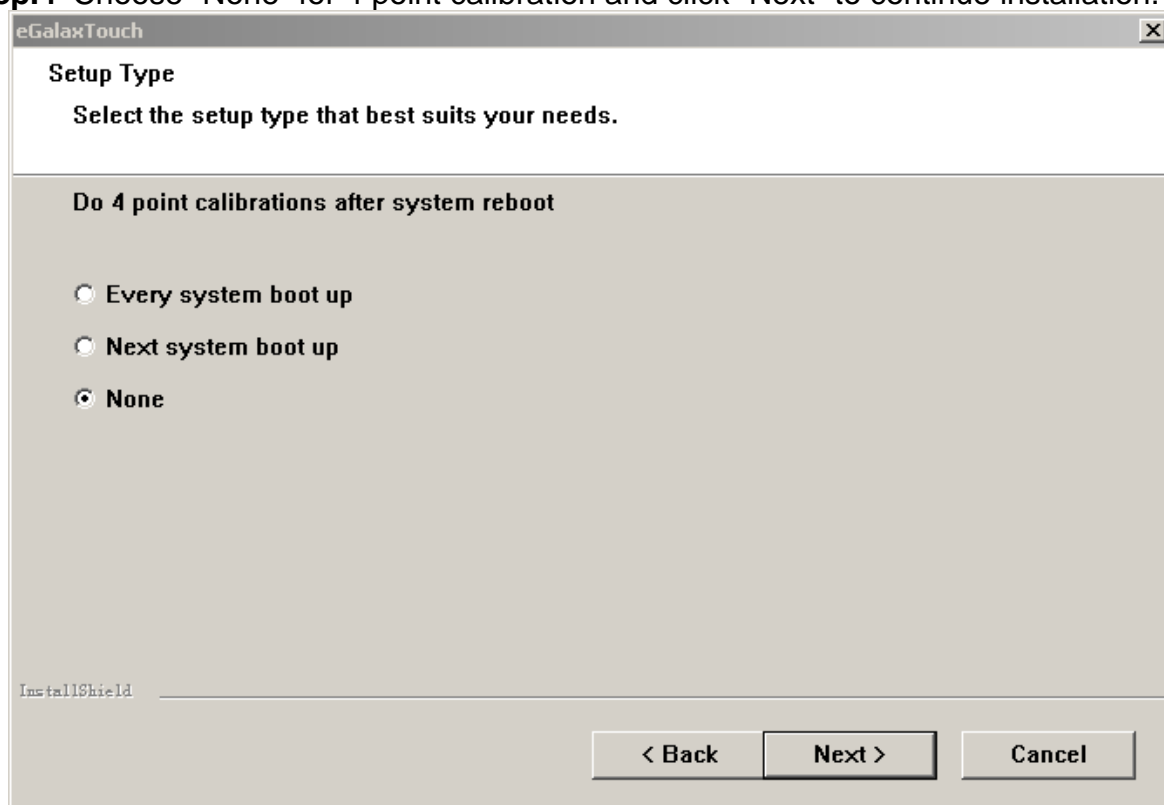


**Step.3** Choose Install PS/2 interface driver and select “Next” to proceed.

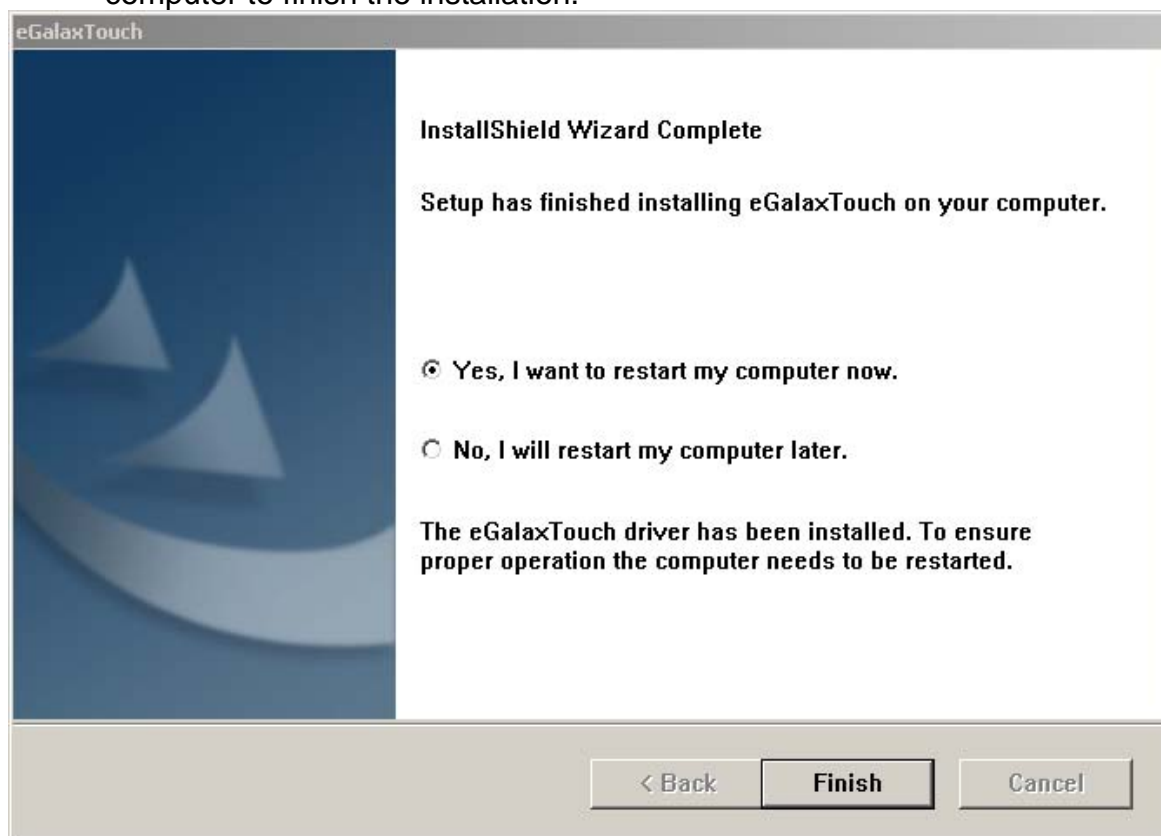




**Step.4** Choose “None” for 4 point calibration and click “Next” to continue installation.



**Step.5** After few seconds of installation, click on “Finish” and choose restart computer to finish the installation.





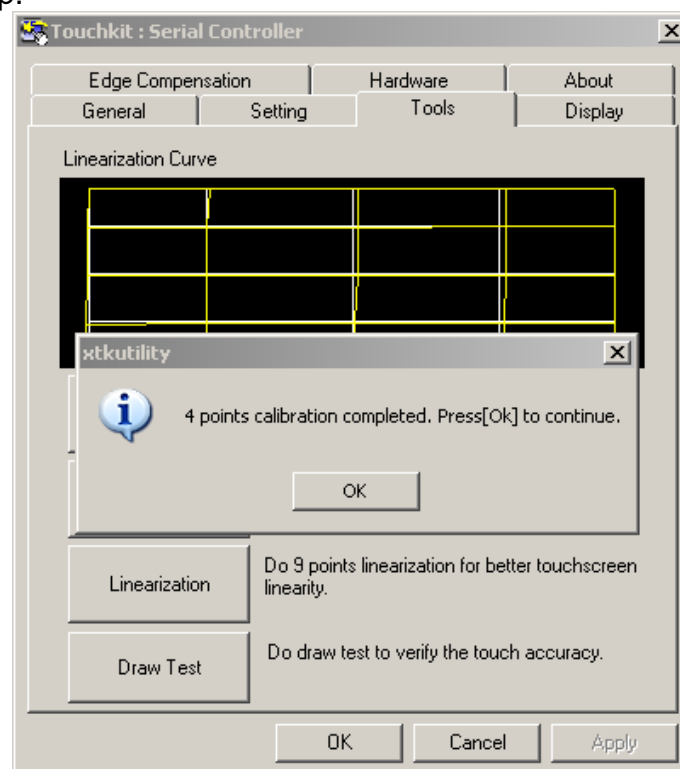
## Note: Configuration Utility

After finishing the installation, please follow the steps to test the **configuration utility**.

**Step.1** Click the “TouchKit” icon function in the desktop.

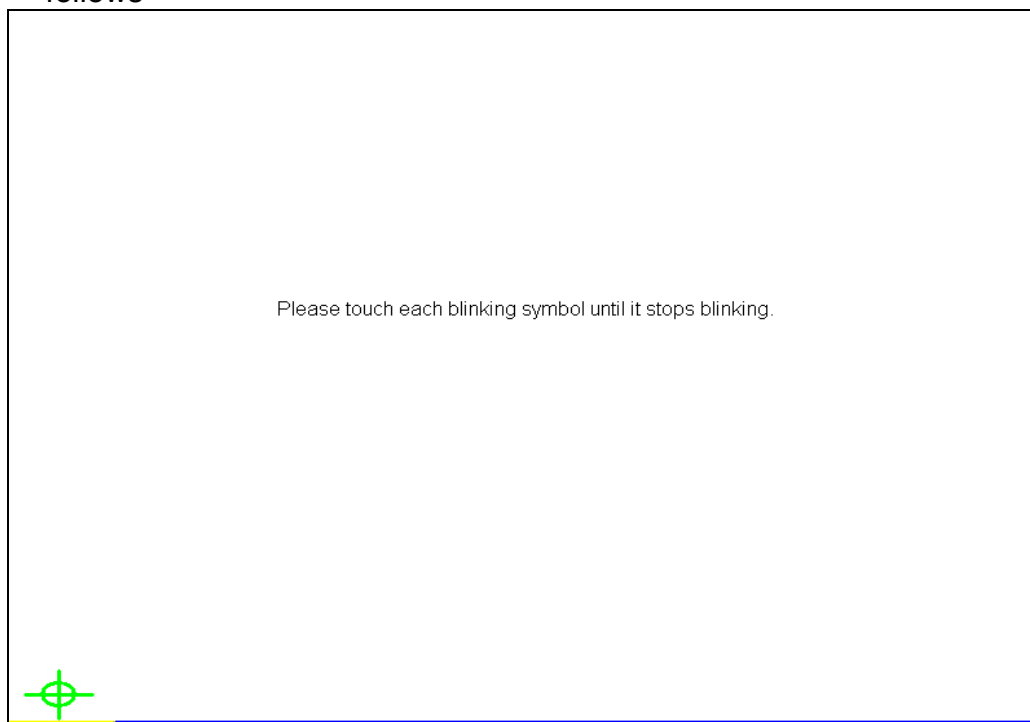


**Step.2** Enter “General” function and choose the language you need. Then go to next step.

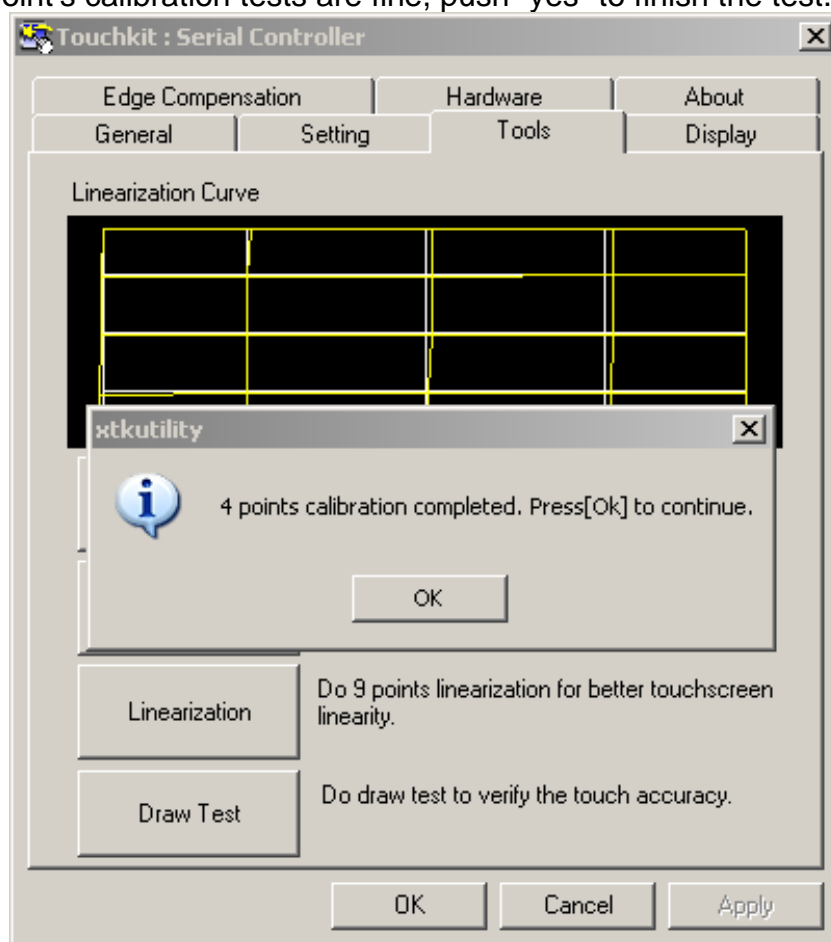




**Step.3** Correct 4 point calibrations on screen with the Panel. Screen display as follows



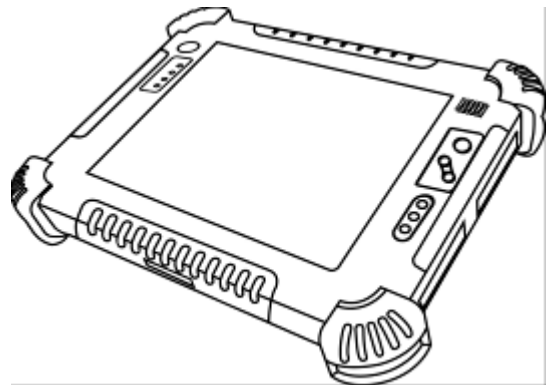
**Step.4** If 4 point's calibration tests are fine, push "yes" to finish the test.





# CHAPTER 5

## Tips to take care of Your Tablet PC





## CHAPTER 5 TIPS TO TAKE CARE OF YOUR TABLET PC

There are few tips for location, cleaning guideline, and for take care of battery pack and touch-screen. Please follow these tips for safeguarding the integrity of your tablet PC data as well as the tablet PC itself.

### 5.1 General Protection Tips for Tablet PC

Please check the general protection tips for Tablet PC location and normal operating.

- Please do not put heavy objects on top of the tablet PC as this may damage the display.
- Do not use paper towels to clean the display but use the included soft cloth. Avoid touching it with your fingers, pen, or pencil.
- Allowing the backlight adjustment automatically turn off as a result of power management is recommended rather than using a screen saver or other software that prevents the power management from working.
- 10 °C and 50 °C is our recommended temperature for operating the tablet pc-actual operating temperature depending on product specifications.
- Avoid placing the tablet PC in a high humidity; extreme temperatures, mechanical vibration, or heavy dust environment.
- Keeping the tablet PC at least 15 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as a TV, refrigerator, motor, or a large audio speaker.
- Avoid moving the tablet PC from a cold to a warm place in short time. A temperature difference of more than 10 °C (18 °F) may cause condensation inside the unit, which may damage the storage media.
- Please do not place the tablet PC on an unstable surface.
- Avoid the Direct Sunlight

### 5.2 Cleaning the Tablet PC

- Make sure the tablet pc is turned off.
- Never spray or pour any liquid directly onto the screen or case.
- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- The display area is highly prone to scratching. Do not use ketene type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clear the panel. It might permanently damage the panel.
- If still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen





### 5.3 Battery Protection Tips

- It is recommended temperature range for charging the battery pack between 5°C ~ 45°C.
- To avoid harm to the battery, recharge the battery pack when it is nearly discharged. When recharging, make sure that the battery pack is fully charged.
- The battery pack is a consumable product and the following conditions will shorten its life:
  - ◆ Frequently charging the battery pack
  - ◆ When using, charging, or storing the battery in high temperature condition
- To avoid hastening the deterioration of the battery pack thereby prolonging its useful life, minimize the number of times you charge it so as not to frequently increase its internal temperature.
- A higher environment temperature will cause the battery pack's temperature to rise. Avoid charging the battery pack inside a closed vehicle and in hot weather condition. Also, charging will not start if the battery pack is not within the allowed temperature range.
- It's recommended that don't charge the battery pack more than once a day.
- Charging the battery pack with the system's power off is recommended.
- To maintain the battery pack's operating efficiency, store it in a cool dark place removed from the tablet PC and with 30 % ~ 40 % charge remaining.
- Avoid installing or removing battery pack when tablet PC is in Standby mode.
- Charging time will be prolonged when the tablet PC is turned on.



#### 5.4 Touch screen Protection Tips

- Avoid using excessive force to the display, when use the finger or the included touch screen stylus pen on the display, **the recommended force can not over 200gf**.
- Besides the included stylus, using a sharp or metallic object may cause scratches and damage the display, thereby causing errors.
- Wipe the touch screen with a clean, soft, lint-free cloth.
- Using the touch screen during low temperature (less than 5°C) may cause a slower response time, this is normal. A normal response time may be restored upon returning to indoor temperature.
- When there is noticeable discrepancy in the operation of the touch screen function (wrong location on intended operation or improper display resolution), refer to the Windows operating system for instructions on recalibrating the touch screen display.



## 5.5 Trouble shooting from A to L

### A. Battery Problem

Condition	Check Point
The battery does not charge (Battery Charge indicator does not light orange).	<ul style="list-style-type: none"> <li>● Make sure that the AC adapter is properly connected.</li> <li>● Make sure that the battery is not too hot or cold. Allow time for the battery pack to return to room temperature.</li> <li>● Make sure that the battery pack is installed correctly.</li> <li>● Make sure that the battery terminals are clean.</li> </ul>

### B. Bluetooth Transmission Problem

Condition	Check Point
I cannot connect to another device with Bluetooth wireless technology.	<ul style="list-style-type: none"> <li>● Make sure that both devices have activated Bluetooth feature.</li> <li>● Make sure that the distance between the two devices are not over 10 meters or that there are no walls or other obstructions between the devices.</li> <li>● Make sure that the other device is not in "Hidden" mode.</li> <li>● Make sure that both devices are compatible.</li> </ul>

### C. Display Problem

Condition	Check Point
Nothing appears on the screen.	<ul style="list-style-type: none"> <li>● During operation, the screen may automatically turn off as a result of power management. Press any key to see if the screen comes back.</li> <li>● The brightness level might be too low. Increase brightness by pressing the button.</li> </ul>

### D. Date/Time Problems

Condition	Check Point
The date or time is incorrect.	<p>Correct the date and time via the operating system or BIOS Setup program.</p> <p>After you have performed everything as described above and still have the incorrect date and time every time you turn on the tablet PC, the RTC (Real-Time Clock) battery is at the end of its life. Call an authorized dealer to replace the RTC battery.</p>



#### E. Hardware Driver Problem

Condition	Check Point
The tablet PC does not recognize a newly installed device.	<ul style="list-style-type: none"> <li>● The device may not be correctly configured in the BIOS Setup program. Run the BIOS Setup program to identify the new type.</li> <li>● Make sure if any device driver needs to be installed. (Refer to the documentation that came with the device.)</li> <li>● Make sure if the device needs any jumper or switch settings. (Refer to the documentation that came with the device.)</li> <li>● Check the cables or power cords for correct connections.</li> <li>● For an external device that has its own power switch, make sure that the power is turned on.</li> </ul>

#### F. Hard Drive Problem

Condition	Check Point
The hard disk drive error message appears on the screen.	<ul style="list-style-type: none"> <li>● The hard disk drive has defects. Ask your dealer for help.</li> </ul>
The hard disk drive operations seem slow.	<ul style="list-style-type: none"> <li>● The data files stored on the hard disk drive may be fragmented. Use a tool such as Window's Disk Defragmenter to defragment the files.</li> </ul>
The hard disk drive indicator glows without blinking.	<ul style="list-style-type: none"> <li>● The data files stored on the hard disk drive may be fragmented. Use a tool such as Window's Disk Defragmenter to defragment the files.</li> </ul>

#### G. LAN Problem

Condition	Check Point
I cannot access the network.	<ul style="list-style-type: none"> <li>● Make sure that the LAN cable is properly connected to the RJ-45 connector and the network hub.</li> <li>● Make sure that the network configuration is appropriate.</li> <li>● Make sure that the user name or password is correct.</li> </ul>



## H. Power Management Problems

Condition	Check Point
The tablet PC does not enter Standby or Hibernation mode automatically.	<ul style="list-style-type: none"> <li>● If you have a connection to another computer, the tablet PC does not enter Standby or Hibernation mode if the connection is actively in use.</li> <li>● Make sure that the Standby or Hibernation time-out is enabled.</li> </ul>
Doesn't enter Standby or Hibernation mode immediately.	<ul style="list-style-type: none"> <li>● If the tablet PC is performing an operation, it normally waits for the operation to finish.</li> </ul>
The tablet PC does not resume from Standby or Hibernation mode.	<ul style="list-style-type: none"> <li>● The tablet PC automatically enters Standby or Hibernation mode when the battery pack is empty.</li> <li>● Do any one of the following: <ul style="list-style-type: none"> <li>- Connect the AC adapter to the tablet PC.</li> <li>- Replace the empty battery pack with a fully charged one.</li> </ul> </li> </ul>

## I. Startup Problems

Condition	Check Point
When you turn on the tablet PC, it does not respond and the Power indicator does not light green.	<ul style="list-style-type: none"> <li>● If you are using an external AC power, make sure that the AC adapter is correctly and securely connected. If so, make sure that the electrical outlet works properly.</li> <li>● If you are using the battery power, make sure that the battery is not discharged.</li> <li>● When the tablet PC is connected to AC power and hard disk drive temperature is below 5 oC, the optional heater would turn on as indicated by the hard disk drive / heater indicator glowing in red (if the item HDD Preheat under the Advanced menu of your BIOS Setup is set at Enabled). Wait awhile.</li> </ul>
When you turn on the tablet PC, it stops after POST.	<ul style="list-style-type: none"> <li>● Restart your tablet PC.</li> </ul>



## J. Software Problems

Condition	Check Point
An application program does not work correctly.	<ul style="list-style-type: none"> <li>● Make sure that the software is correctly installed.</li> <li>● If an error message appears on the screen, consult the software program's documentation for further information.</li> <li>● If you are sure the operation has stop, reset the tablet PC.</li> </ul>

## K. Sound Problems

Condition	Check Point
No sound is produced.	<ul style="list-style-type: none"> <li>● Make sure that the volume control is not set too low. Increase volume by pressing the button.</li> <li>● Make sure that the tablet PC is not in Standby mode.</li> <li>● If using an external speaker, make sure that the speaker is properly connected.</li> </ul>
Distorted sound is produced.	<ul style="list-style-type: none"> <li>● Make sure that the volume control is not set too high or too low. In most cases, a high setting can cause the audio electronics to distort the sound.</li> </ul>
The external audio device does not work.	<ul style="list-style-type: none"> <li>● Make sure that your tablet PC is equipped with the driver needed.</li> <li>● Click the speaker symbol on the taskbar and check the Windows volume control.</li> <li>● Check the volume control of your tablet PC.</li> </ul>



## L. Wireless LAN Problem

Condition	Check Point
Can not use the wireless LAN feature.	<ul style="list-style-type: none"> <li>● Make sure that the wireless LAN feature is turned on.</li> </ul>
Transmission quality is poor.	<ul style="list-style-type: none"> <li>● Your tablet PC may be in an out-of-range situation. Move your tablet PC closer to the Access Point or another wireless LAN device it is associated with.</li> <li>● Check if there is high interference around the environment and solve the problem as described next.</li> </ul>
Radio interference exists.	<ul style="list-style-type: none"> <li>● Move your tablet PC away from the device causing the radio interference such as microwave oven and large metal objects.</li> <li>● Plug your tablet PC into an outlet on a different branch circuit from that used by the affecting device.</li> <li>● Consult your dealer or an experienced radio technician for help.</li> </ul>
I cannot connect to another wireless LAN device.	<ul style="list-style-type: none"> <li>● Make sure that the wireless LAN feature is turned on.</li> <li>● Make sure that the SSID setting is the same for every wireless LAN device in the network.</li> <li>● PC is not recognizing changes. Restart the tablet PC.</li> <li>● Make sure that the IP address or subnet mask setting is correct.</li> </ul>
I cannot communicate with the computer in the network when Infrastructure mode is configured.	<ul style="list-style-type: none"> <li>● Make sure that the Access Point your tablet PC is associated with is powered on and all the LEDs are working properly.</li> <li>● If the operating radio channel is in poor quality, change the Access Point and all the wireless station(s) within the BSSID to another radio channel.</li> <li>● Your tablet PC may be in an out-of-range situation. Move your tablet PC closer to the Access Point it is associated with.</li> <li>● Make sure that your tablet PC is configured with the same security option (encryption) to the Access Point.</li> <li>● Use the Web Manager/Telnet of the Access Point to check whether it is connected to the network.</li> <li>● Reconfigure and reset the Access Point.</li> </ul>
I cannot access the network.	<ul style="list-style-type: none"> <li>● Make sure that the network configuration is appropriate.</li> <li>● Make sure that the user name or password is correct.</li> <li>● You have moved out of range of the network.</li> <li>● Turn off power management.</li> </ul>